



THE  
COUNTRY GENTLEMEN'S  
CATALOGUE

PUBLISHED 1894 ANNUALLY



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ALPHABETICAL DIRECTORY.

ENQUIRY FORMS.



THE  
**COUNTRY GENTLEMEN'S**  
**CATALOGUE**

OF REQUISITES FOR THE  
HOUSE, FIELD, FARM, GARDEN, STABLE,  
KENNEL, &c.



TO WHICH IS ADDED A  
NOTE BOOK, PRIZE RECORD AND DIRECTORY,  
Specially Compiled for the use of Country Gentlemen.

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PUBLISHED **1894.** ANNUALLY.

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Printed and Published by  
EDEN FISHER & CO., 50, Lombard Street, & 96-97, Fenchurch Street, London, E.C.

(Publishers of the A1 and ABC TELEGRAPHIC CODES.)

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ENTERED AT STATIONERS' HALL.

# CALENDAR, 1894.

<b>JANUARY.</b> <i>S</i> .... 7 14 21 28 ... <i>M</i> 1 8 15 22 29 ... <i>Tu</i> 2 9 16 23 30 ... <i>W</i> 3 10 17 24 31 ... <i>Th</i> 4 11 18 25 ... .. <i>F</i> 5 12 19 26 ... .. <i>S</i> 6 13 20 27 ... ..	<b>FEBRUARY.</b> <i>S</i> ... 4 11 18 25 ... <i>M</i> ... 5 12 19 26 ... <i>Tu</i> ... 6 13 20 27 ... <i>W</i> ... 7 14 21 28 ... <i>Th</i> 1 8 15 22 ... .. <i>F</i> 2 9 16 23 ... .. <i>S</i> 3 10 17 24 ... ..	<b>MARCH.</b> <i>S</i> ... 4 11 18 25 ... <i>M</i> ... 5 12 19 26 ... <i>Tu</i> ... 6 13 20 27 ... <i>W</i> ... 7 14 21 28 ... <i>Th</i> 1 8 15 22 29 ... <i>F</i> 2 9 16 23 30 ... <i>S</i> 3 10 17 24 31 ...
<b>APRIL.</b> <i>S</i> 1 8 15 22 29 ... <i>M</i> 2 9 16 23 30 ... <i>Tu</i> 3 10 17 24 ... .. <i>W</i> 4 11 18 25 ... .. <i>Th</i> 5 12 19 26 ... .. <i>F</i> 6 13 20 27 ... .. <i>S</i> 7 14 21 28 ... ..	<b>MAY.</b> <i>S</i> ... 6 13 20 27 ... <i>M</i> ... 7 14 21 28 ... <i>Tu</i> 1 8 15 22 29 ... <i>W</i> 2 9 16 23 30 ... <i>Th</i> 3 10 17 24 31 ... <i>F</i> 4 11 18 25 ... .. <i>S</i> 5 12 19 26 ... ..	<b>JUNE.</b> <i>S</i> ... 3 10 17 24 ... <i>M</i> ... 4 11 18 25 ... <i>Tu</i> ... 5 12 19 26 ... <i>W</i> ... 6 13 20 27 ... <i>Th</i> ... 7 14 21 28 ... <i>F</i> 1 8 15 22 29 ... <i>S</i> 2 9 16 23 30 ...
<b>JULY.</b> <i>S</i> 1 8 15 22 29 ... <i>M</i> 2 9 16 23 30 ... <i>Tu</i> 3 10 17 24 31 ... <i>W</i> 4 11 18 25 ... .. <i>Th</i> 5 12 19 26 ... .. <i>F</i> 6 13 20 27 ... .. <i>S</i> 7 14 21 28 ... ..	<b>AUGUST.</b> <i>S</i> ... 5 12 19 26 ... <i>M</i> ... 6 13 20 27 ... <i>Tu</i> ... 7 14 21 28 ... <i>W</i> 1 8 15 22 29 ... <i>Th</i> 2 9 16 23 30 ... <i>F</i> 3 10 17 24 31 ... <i>S</i> 4 11 18 25 ... ..	<b>SEPTEMBER.</b> <i>S</i> ... 2 9 16 23 30 <i>M</i> ... 3 10 17 24 ... <i>Tu</i> ... 4 11 18 25 ... <i>W</i> ... 5 12 19 26 ... <i>Th</i> ... 6 13 20 27 ... <i>F</i> ... 7 14 21 28 ... <i>S</i> 1 8 15 22 29 ...
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## PREFACE.

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WITH much pleasure we present the Second Annual volume of the "COUNTRY GENTLEMEN'S CATALOGUE" in an enlarged and improved form.

Our views with regard to the usefulness of a General Catalogue of all requirements for the country house and estate have been fully endorsed by many gentlemen residing in all parts of the Kingdom. It is admitted that circulars sent by post are a nuisance, and when an attempt is made to keep them for reference, it invariably ends in failure. The consequence is that about ninety-nine per cent. of the circulars received at a country house are consigned to the waste-paper basket, or hopelessly mislaid.

The plan we offer of a combined General Catalogue saves much wasteful expenditure to manufacturers and tradesmen, and provides a ready reference to their goods.

In accordance with the views expressed by several subscribers to our first volume, we have carefully abstained from including any firm of doubtful reputation, our object being to make the Catalogue a reliable guide to articles of best workmanship only.

We hope, therefore, that subscribers will give preference to the firms whose goods are described in these pages, and will use our Enquiry and Order Forms when communicating with them.

In addition to the Catalogue Section, we have endeavoured to enhance the value of the book by adding notes on subjects of general information.

The Record of Prizes taken by leading exhibitors of Pedigree Stock during the past year, is a new feature, and one which we hope to very much develop in future years. It should provide a useful companion to the various Stud and Herd Books, and insure the Catalogue being kept for reference year by year.

We shall be pleased at all times to receive suggestions as to the improvement of the publication, and any advice we can give as to the best goods to purchase for special purposes, will be given promptly and impartially.

Our thanks are due to all subscribers, and we hope to continue to have their confidence for many years to come.

50, LOMBARD STREET,  
LONDON, E.C.

March, 1894.

THE EDITOR,  
*"The Country Gentlemen's Catalogue."*



## SOME OPINIONS FROM SUBSCRIBERS.

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RIGHT HON. LORD CLANMORRIS, Master of Fox Hounds, The Kennels, Craughwell, Co. Galway.

"It will be a very useful guide as to the price of articles used in Hunting and Farming establishments, and give one an idea how much they ought to cost and where to get them best."

LORD A. GROSVENOR, Eaton Hall, Chester.

"It is most useful, especially to those people who are unable to procure things, being far from towns. It is a most valuable guide and well arranged."

GENERAL LORD A. RUSSELL and A. GORDON RUSSELL, Esq., of Ewhurst Park, Basingstoke.

"We think that it will be a useful book to all country gentlemen and farmers."

LORD ABERDARE, Duffryn, Mountain Ash.

"It collects within a small space much information useful to residents in the country."

HON. F. JOHNSTONE, Hackness Grange, Scarborough.

"It may become an extremely convenient book of reference, especially if prices are given by the various manufacturers whose announcements are collected in its pages. If this Catalogue should diminish the flood of circulars poured upon the country gentleman it will indeed confer a boon upon him which must be appreciated by those who have suffered by the nuisance in the post."

SIR DOUGLAS GALTON, BART., Himbleton Manor, Droitwich.

"It will be very useful to people living in the country."

ADMIRAL SIR GEORGE GIFFORD, K.C.B., J.P., Brightleigh, Redhill.

"It is a valuable and useful work, combining many catalogues in one, with much useful information."

MAJOR H. F. DENT, Menethorpe, Malton, Yorks.

"The Catalogue is a useful book of reference for a country gentleman's room."

WM. MORE-MOLYNEUX, Esq., St. Catherine's, Guildford.

"It is a most useful and handy form of collecting together the announcements of manufacturers, and ought to be extensively patronized by tradesmen and companies who wish to push their business. It should take the place of the innumerable trade circulars that have become a positive nuisance, and fill the waste-paper basket daily, as there is no other place to dispose of them. The Index and Classified Directory attached to the Catalogue is well conceived, and adds much to its value."

SIR W. G. WILLIAMS, BART., Bodelwyddan, Rhuddlan.

"It contains a great deal of useful information for people residing in the country, and seems to have been most carefully compiled."

MAJOR H. M. STAPYLTON, Myton Hall, Helpierby.

"It will be decidedly a great assistance to country gentlemen, and still more so if advertisements were refused or published with a cautionary mark where bad workmanship or other causes had induced people to send complaints, which could be substantiated, to the Editor."

TONMAN MOSLEY, Esq., Bangors, Iver, Uxbridge.

"My opinion is, that I should be saved the rough examination of advertisements constantly sent to me, and the troublesome searching for particular ones saved with a purpose, but without index, and have in book form what is now a mass of disorganised papers. I constantly have to refer to some of these circular price lists, but cannot always find the one I require, while I often find that I have torn up, unread, something I most require. The indexes are your best features."

HENRY H. CAVE, Esq., Estate Agent, The Brackenholmes, Billing Road, Northampton.

"If kept well up to date, it will be a most useful publication. It would, I think, add to its value if you could get breeders of pure bred Stock to insert particulars of their Studs and Herds."

CAPT. A. W. HICKS BEACH, Wick House, Downton.

"It will be most useful to all connected with agriculture, especially in a more complete form."

COLONEL JOHN ST. LEGER, Park Hill, Rotherham.

"It contains most useful information and will be invaluable as a book of reference."

CHAS. M. R. CLEWE, Esq., Bayham Estate Office, Highfield, Frant, Tunbridge Wells.

"It appears to have been put together with great tact, and I consider it to be a most useful reference."

J. R. RANDELL, Esq., Chadbury, Evesham.

"When published in a more complete form it will be a most useful book of reference for everyone, and must have a very large circulation. As an advertising medium it must prove first rate."

C. G. BOLAM, Esq., Boughton House, Kettering.

"It will form a useful book. The idea of a landowners and land agents' *vade mecum* combined with a priced list of things chiefly required by them is a good one."

RICHARD STRATTON, Esq., The Duffryn, Newport, Mon.

"It contains a quantity of valuable information for country gentlemen and farmers."

REV. H. J. DE SALIS, Portnall Park, Virginia Water.

"It will be a very useful publication."

COLONEL DAVIES-COOKE, Colomendy, Mold.

"It is a most useful publication and one which no farmer should be without. The information is, in my opinion, most valuable, and the Classified Directory at the end cannot fail to be useful to all intending purchasers."

WILLIAM FORBES, Esq., Swinton, Masham, Yorks.

"It is a very useful reference guide for almost everything required on an estate. At times one may not know where to apply for special articles not in every day use, and in such cases I consider your 'Country Gentlemen's Catalogue' invaluable."

PRIMROSE MCCONNELL, Esq., B.Sc., Ongar Park Hall, Ongar, Essex.

"It will be of the greatest value to all who require implements or other equipments of the farm. It is generally a very great annoyance to have to hunt through a pile of loose catalogues and papers—all of different sizes and shapes—to find the publications of any particular firm one happens to want, so that this volume will be an exceedingly great convenience for reference to all who like myself are either buyers or users, or have to keep themselves posted up in the manufactures of all firms of standing. I hope that in your next issue all those firms whose goods have a name among the farming community will see their way to insert a pretty full statement regarding their manufactures."

T. STRICKLAND, Esq., Thirsk.

"It contains a lot of really useful information to agriculturists, all of whom should possess a copy."

H. KING & SON, Auctioneers, Land Agents and Surveyors, Stourbridge.

"It is a most useful book and well worthy of attention."

J. BODENHAM, Esq., Edgmond, Newport.

"It will be a useful book of reference, and if well supported by subscribers, will save an infinity of trouble in filing catalogues."

W. D. MACKENZIE, Esq., Fawley Court, Henley-on-Thames.

"It supplies a want, and if it will in any way tend to the reduction of circulars sent by post, will be much appreciated by many."

MAJOR-GENERAL G. H. L. MILMAN, Martins Heron, Bracknell.

"In its present form it is a most useful book of reference, more particularly to country gentlemen, and when completed will necessarily be more so. The Directories at the end, and the Notes at the beginning of the book, will be very useful to all."

COLONEL J. P. TURBERVILL, Ewenny Priory, Bridgend.

"It will be a most useful book of reference to country gentlemen and farmers."

SIR EDMUND A. H. LECHMERE, Bart, M.P., Rhydd Court, Hanley Castle.

"It is a very useful publication. It comprises particulars of many useful inventions and manufactures, more or less interesting to country gentlemen, and thus becomes a valuable and handy book of reference relating to the Farm, Estate and Country House. I shall hope to see it continued and amplified."

FRANCIS J. SUMNER, Esq., J.P., Eathorpe Park, near Leamington.

"It will be very useful to all interested in land, and will supply a long-felt want. Of course, new features of interest will suggest themselves as time goes on."

F. VAUGHAM WILLIAMS, Esq., Burton Court, Leominster.

"It is a most useful compilation for agriculturists, especially those living in the remote districts, but I think it would be still more useful if rather more idea as to prices could be obtained, as many will not trouble to write for price lists."

CHAS. N. COBBOLD, Esq., Dodworth, Barnsley.

"As the list of makers of various estate requisites becomes more complete it will be a useful publication."

H. G. GODFREY POYTON, Esq., 11, Mill Street, Warwick.

"It will be found exceedingly useful to country gentlemen, whether owners or occupiers. The Alphabetical Directory at the end of the Catalogue renders it convenient for reference, whilst the agricultural notes are concise, interesting and valuable."

JAMES R. CORBETT, Esq., Betchworth.

"I think it is a very good idea."

A. G. PEARSE, Esq., Kirkby Grange Farm, Tadcaster.

"It is a very useful Catalogue for country gentlemen and farmers to keep by them for reference."

WILFRID F. TEMPEST, Esq., Ackworth Grange, Pontefract.

"It is, even in its present form, a most useful book, and I am much obliged for the copy sent to me."

A. D. HUSSEY FREKE, Esq., Hannington Hall, Highworth, Wilts.

"It is a very useful publication."

FREDERIC J. SHARP, Esq., Newby Estate Office, Ripon.

"I consider it an extremely useful catalogue for reference, but it should be on a much larger scale, so as to enable any article required to be easily found and the name of the best firm where it can be obtained. The firms also should be considered thoroughly reliable, or not entered in the Catalogue."

JOHN HUNGERFORD ARKWRIGHT, Esq., of Hampton Court, Leominster.

"It is a very useful work of reference."

J. LOCKE STRATTON, Esq., J.P. for Bucks and Northampton, Turweston Hall, Brackley.

"It is likely to be very useful."

J. S. K. MOSS, Esq., Chaisworth, Blandford.

"My opinion is that, if complete, it would be a very useful thing."

SALISBURY BAXENDALE, Esq., Bonningtons, Ware, Herts.

"It is an excellent thing."

C. HOWARD TAYLOR, Esq., New Hall, near Barnsley.

"It is a very useful book."

W. DUNNE, Esq., Ballymanees, Stradbally.

"It is a very useful book as an advertising medium."

THEODORE J. HARE, Esq., Borden Wood, Liphook.

"It will be of great use to refer to if it is well edited and all rubbishing advertisements left out, whilst all really good things are carefully inserted."

RIGHT. HON. SIR WILLIAM GRANTHAM, Barcombe Place, near Lewes.

"The publication will be a most useful one."

T. F. FILGATE, Esq., Court House, Dundalk.

"I consider your 'Country Gentlemen's Catalogue' a most useful production and an excellent book of reference, and I am sure the larger edition will be greatly appreciated by gentlemen in the country."

G. DRINKWATER, Esq., Kirby, Douglas, Isle of Man.

"My opinion is that a book upon the lines of the present volume, but more amplified, will be a great convenience to country gentlemen."

W. A. MACFARLANE-GRIEVE, Esq., of Edenhall, N.B., and Impington Park, Cambridgeshire.

"It is likely to be useful for reference, and will often save hunting among a file of catalogues. The addition of prices in all cases where practicable and terms of business to landowners would further enhance its utility."



**INLAND POSTAGE, &c.**

## LETTERS.

Not above 1 oz....	...	...	...	...	...	1d.
Above 1 oz. but not above 2 oz.	...	...	...	...	...	1½d.
" 2 oz.	"	4 oz.	...	...	...	2d.
" 4 oz.	"	6 oz.	...	...	...	2½d.
" 6 oz.	"	8 oz.	...	...	...	3d.
" 8 oz.	"	10 oz.	...	...	...	3½d.
" 10 oz.	"	12 oz.	...	...	...	4d.
" 12 oz.	"	14 oz.	...	...	...	4½d.
and so on at the rate of ½d. for every additional 2 oz.						
No letter may exceed 18 in. in length, 9 in. in width, or 6 in. in depth, unless it be sent to or from a Government Office.						

## BOOK POST.

**The prepaid postage of a Book-packet is one half-penny for every 2 oz. or part of 2 oz. If posted unpaid, the charge is double that amount; if partly paid, double the deficiency.**

No Book-pocket may exceed 5 lb. in weight, 18 inches in length, 9 in. in width, or 6 inches in depth.

## NEWSPAPERS.

The prepaid postage on every registered inland newspaper is one half-penny, but a packet containing two or more registered newspapers is not chargeable with a higher rate than would be chargeable on a book-packet of the same weight.

**PARCEL POST.**

For a parcel not exceeding 1 lb. in Weight 8d., and 1½d. for every additional 1 lb. or part of that weight. No parcel to exceed 11 lb. in weight.

Parcels must not be posted in a letter-box, but must be taken into a Post Office and handed over the counter.

The Initials of the London Postal Districts should not be used in addressing parcels to London or its Suburbs.

## REGISTRATION.

The fee for registering any Postal Packet (parcels included) passing by post between any two places in the United Kingdom is 2d. Every article presented for Registration must be enclosed in a strong cover, securely fastened, and must be given to an agent of the Post Office and a receipt obtained for it, and it must on no account be dropped into a letter box. Every article presented for Registration should be marked with the word "Registered," and with the amount of the fee proper to the value up to which the sender desires to secure compensation, thus, "Registered 3d."

## MONEY ORDERS.

**The scale of charges on the issue of Inland Money Orders is—**

For sums not exceeding £1	...	...	...	...	9d.
For sums above £1 and not exceeding £2	...	...	...	...	8d.
" £2	"	£4	...	...	4d.
" £4	"	£7	...	...	5d.
" £7	"	£10	...	...	6d.

Payment of an Order cannot under any circumstances be made on the day of issue.

### TELEGRAPH MONEY ORDERS.

Money may be transmitted by Telegraph Money Order between all Post Offices in the United Kingdom authorised to transact Telegraph and Money Order business, with the exception that at those Offices which forward but do not deliver Telegrams, Telegraph Money Orders can be issued, but cannot be paid.

**The Commission is—**

The Commission is—				s. d.
For sums not exceeding £1 ... ..	...	...	...	0 4
For sums above £1 and not exceeding £2	...	...	...	0 6
" £2 " £4	...	...	...	0 8
" £4 " £7	...	...	...	0 10
" £7 " £10	...	...	...	1 0

In addition to the Commission a charge is made at the ordinary  
Inland Rate for the Official Telegram authorising payment at the  
office of payment, the minimum being 9d.

**No Telegraph Money Order issued for amounts above £10.**

### POSTAL ORDERS.

The following are the amounts for which Postal Orders are issued, together with the poundage payable for each Order.

For 1 d.				For 4 d.			
1	6	...	...	5	0	...	...
2	0	...	...	7	6	...	...
2	6	...	...	10	0	...	...
3	0	...	...	10	6	...	...
3	6	...	...	15	0	...	...
4	0	...	...	20	0	...	...

Broken Amounts may be made up by affixing Postage Stamps not exceeding 5d. in value to the face of any one Order.

### TELEGRAMS.

The charge is 6d. for the first 12 words, and 1d. for every additional word. Addresses are charged for. Reply to a telegram may be prepaid.

**SAVINGS BANK.**

Deposits of One Shilling or any number of Shillings will be received, subject to the limits of £90 in one year and £150 in all, exclusive of Interest.

Interest at the rate of £2 10s. per cent. (which is at the rate of 6d. a year for each complete pound) is allowed.

## STAMP DUTIES.

<b>AFFIDAVIT OR STATUTORY DECLARATION</b> .....	£0 2 6
<b>AGREEMENT, adhesive or impressed, under hand only,</b> where the matter is of the value of £5, or upwards, whether only evidence of a Contract, or obligatory upon the parties from its being a written Instrument	0 0 6
<b>AGREEMENT, adhesive or impressed, for letting a furnished house for less than a year; the Rent exceeding £25</b> ...	0 2 6
<b>AGREEMENT for letting a house or Tenement, or part only, for less than a year, at a rent not exceeding £10 per annum</b> .....	0 0 1
<b>Postage Stamps</b> may be used for Agreements, each party to the Agreement signing his name across the stamp and adding the date.	
<b>AGREEMENT FOR A LEASE (see Lease).</b>	
<b>APPRAISEMENT OR VALUATION of Property—</b>	
Where the amount does not exceed £5	0 0 3
Exceeds £5 and does not exceed £10	0 0 6
For every £10 (up to £200) or fraction of £10	0 0 6
Above £200 and not exceeding £500	0 15 0
Above £500	1 0 0
<b>BILL of EXCHANGE payable on demand or at sight</b> ...	0 0 1
<b>BILL of EXCHANGE (except a Bank Note) or PROMISSORY NOTE of any kind drawn, or made payable, or actually paid, or endorsed, or in any manner negotiated in the United Kingdom—</b>	
Not exceeding £5...	0 0 1
Exceeding £5, and not exceeding £10	0 0 2
" £10 " " £25	0 0 3
" £25 " " £50	0 0 6
" £50 " " £75	0 0 9
" £75 " " £100	0 1 0
For every £100, and also for any fractional part of £100...	0 1 0
<b>N.B.—The Duty on Bills drawn in the United Kingdom must be denoted by impressed stamps.</b>	
<b>The Duty on Bills drawn abroad, payable or negotiable in the United Kingdom must be paid with adhesive stamps.</b>	
<b>Bills of Exchange, or Promissory Notes, payable at any time after date, have three Days of Grace allowed; thus, a Bill dated Jan. 1 at two months' date is not due till March 4; but, by a recent Act, no Days of Grace are allowed on Bills drawn at sight or on demand; such must, therefore, be paid on presentation.</b>	
<b>BILL of SALE, absolute, same duty as Conveyance.</b>	
<b>BILL of SALE, as security, same duty as Mortgage, &amp;c.</b>	
<b>CHEQUE OR DRAFT, payable on demand or to order</b> ...	0 0 1
<b>CONTRACT NOTE</b> ...	0 0 1
<b>CONVEYANCE and transfer of any Mortgage Bond or Debenture or marketable security not transferable by delivery—</b>	
Where the purchase-money shall not exceed £5...	0 0 6
Exceeding £5 and not exceeding £10	0 1 0
" £10 " " £15	0 1 6
" £15 " " £20	0 2 0
" £20 " " £25	0 2 6
For every additional £25 up to £200	0 2 6
If exceeding £200, then for every £50	0 5 0
Of any kind not otherwise charged	0 10 0
<b>CONVEYANCE or TRANSFER—Bank of England Stock</b> ...	0 7 9
<b>East India Company Stock</b> ...	1 10 0
<b>Of any Colonial Debenture Stock or funded Debt, for every £100, or fractional part of £100, of nominal amount transferred</b> ...	0 2 6

# INLAND POSTAGE, &c.—Continued.

## STAMP DUTIES—Continued.

LEASE—			
Yearly Rent not exceeding	Term not exceeding 35 Years	Term exceeding 35 Years and not exceeding 100 Years	Term exceeding 100 Years
£5 ...	£0 0 6 ...	£0 8 0 ...	£0 6 0
£10 ...	0 1 0 ...	0 6 0 ...	0 12 0
£15 ...	0 1 6 ...	0 9 0 ...	0 18 0
£20 ...	0 2 0 ...	0 12 0 ...	1 4 0
£25 ...	0 2 6 ...	0 15 0 ...	1 10 0
£30 ...	0 3 0 ...	1 10 0 ...	3 0 0
£35 ...	0 3 6 ...	1 10 0 ...	4 10 0
£40 ...	0 4 0 ...	1 10 0 ...	6 0 0
£45 ...	0 4 6 ...	1 10 0 ...	8 0 0
£50 ...	0 5 0 ...	1 10 0 ...	10 0 0
£55 ...	0 5 6 ...	1 10 0 ...	12 0 0
£60 ...	0 6 0 ...	1 10 0 ...	14 0 0
£65 ...	0 6 6 ...	1 10 0 ...	16 0 0
£70 ...	0 7 0 ...	1 10 0 ...	18 0 0
£75 ...	0 7 6 ...	1 10 0 ...	20 0 0
£80 ...	0 8 0 ...	1 10 0 ...	22 0 0
£85 ...	0 8 6 ...	1 10 0 ...	24 0 0
£90 ...	0 9 0 ...	1 10 0 ...	26 0 0
£95 ...	0 9 6 ...	1 10 0 ...	28 0 0
£100 ...	0 10 0 ...	1 10 0 ...	30 0 0

For every further sum of £50, or fractional part of £50... 0 5 0 ... 1 10 0 ... 3 0 0

Agreement for lease (not exceeding 35 years) same as lease.

MORTGAGE, BOND, DEBENTURE, COVENANT, WARRANT OF ATTORNEY TO CONFESS AND ENTER JUDGMENT, AND FOREIGN SECURITY of any kind, being the only or principal or primary security for the payment or repayment of money—

Not exceeding £10	...	...	...	£0 0 3
Exceeding £10 and not exceeding £25	...	...	...	0 0 8
" £25	"	£50	...	0 1 3
" £50	"	£100	...	0 2 6
" £100	"	£150	...	0 3 9
" £150	"	£200	...	0 5 0
" £200	"	£250	...	0 6 3
" £250	"	£300	...	0 7 6
" £300, for every £100 and for every fractional part of £100	...	...	...	0 2 6
" £300	...	...	...	0 6 6

PASSPORT

PROMISSORY NOTE (see Bill of Exchange).

RECEIPT.—For Sums of £2 and upwards ... 0 0 1

SCRIP CERTIFICATE ... 0 0 1

SPOILED STAMPS.—Claims for the Allowance of Spoiled Stamps are received at the Spoiled Stamp Office, Somerset House, every day from 11 till 3 o'clock, except Saturdays, when the hours are from 10 till 1; and at 2, Great Winchester Street Buildings, London Wall, E.C., on any Monday, Wednesday or Friday, from 11 till 3 o'clock.

Declarations made in the Country can only be received at Somerset House.

STAMPING DEEDS.—Agreements may be stamped within 14 days of their date; after 14 days, on payment of a penalty of £10.

## TAXES, LICENCES, &c.

ARMORIAL BEARINGS ...	...	...	...	£1 1 0
If used on any Carriage ...	...	...	...	2 2 0
Grant of Arms ...	...	...	...	10 0 0
CARRIAGES.—For every carriage with four wheels, for two or more horses ...	...	...	...	2 2 0
For every carriage with four wheels, for one horse ...	...	...	...	1 1 0
For every carriage with less than four wheels ...	...	...	...	0 15 0
DOG LICENCE (Great Britain) ...	...	...	...	0 7 6
GAME DEALER'S LICENCE ...	...	...	...	2 0 0
GAMEKEEPER'S LICENCE, to expire 31st July ...	...	...	...	2 0 0
GAME LICENCE (if taken out after the 31st of July and before 1st November, to expire 31st July following) ...	...	...	...	3 0 0
July 31st to October 31st ...	...	...	...	2 0 0
For any person, continuous period of 14 days ...	...	...	...	1 0 0
GUN LICENCE ...	...	...	...	0 10 0
Annual Value.				
HOUSE DUTY.—£20 to £40 inclusive ...	...	...	...	8d. ... 0 0 2
£41 ,, £60 do. ...	...	...	...	6d. ... 0 0 4
Above £60 ...	...	...	...	9d. ... 0 0 6
INCOME AND PROPERTY TAX ...	...	...	...	in the £
Schedule A—Lands, Tenements, &c. ...	...	...	...	7d.
" B—Occupiers of Land, Farms, &c. ...	...	...	...	1/2 of 8d.
" Scotland and Ireland ...	...	...	...	2d.
" C, D, E—Incomes from Trades, Professions, &c. ...	...	...	...	6d.
If under £150 per year, exempt; if less than £400, £120 is allowed free.	...	...	...	
LEGACY AND SUCCESSION DUTY—	...	...	...	
Children or Grandchildren ...	...	...	per cent.	1 0 0
Brother or Sister, or their descendants ...	...	...	"	3 0 0
Uncle or Aunt ...	...	...	"	5 0 0
Great Uncle or Aunt ...	...	...	"	6 0 0
To any other relation or stranger in blood ...	...	...	"	10 0 0
Legacy to Husband or Wife ...	...	...	...	exempt.
MALE SERVANTS—Each male servant ...	...	...	...	0 15 0
STAMP CERTIFICATE (Copy of) of Birth, Marriage or Death ...	...	...	...	0 2 7

## SITTINGS OF THE LAW COURTS.

TERMS.	BEGIN.	END.
Hilary ...	January 11 ...	March 21.
Easter ...	April 8 ...	May 11.
Trinity ...	May 22 ...	August 11.
Michaelmas ...	October 24 ...	December 21.

# WEIGHTS AND MEASURES.

## TROY WEIGHT.

	Pennywts.	Grains.	gr.
Ounces.	1	=	24 dwt.
Pound.	1	=	20
1	=	12	= 240
		=	5760 lb.
A carat = 4 grains.	100 Troy ounces =	190½ ounces	Avoirdupois.

## AVOIRDUPOIS WEIGHT.

	dr.	Ty.	gr.
	oz.	1	= 27½
	lb.	1	= 16 = 437½
st.	1	= 16 = 256 = 7000	
qr.	1	= 14 = 224 = 3584	
cwt.	1	= 2 = 28 = 448 = 7168	
Ton.	1	= 4 = 8 = 112 = 1792 = 28672	
1	= 20 = 80 = 160 = 2240 = 35840 = 573440		
Ton.	cwt.	qr.	st.
1	= 20 = 80 = 160 = 2240 = 35840 = 573440		
A Cental = 100 pounds.	100 Ounces	Avoirdupois =	91½ ounces Troy.

The Apothecaries' Weight is now the same as the Avoirdupois.

## LINEAL MEASURE.

	ft.	in.
yds.	1	= 12
pl.	1	= 3 = 36
ch.	1	= 5½ = 16½ = 198
fur.	1	= 4 = 22 = 66 = 792
Mile.	1	= 10 = 40 = 220 = 660 = 7920
1	= 8 = 80 = 320 = 1760 = 5280 = 63360	
A league = 3 miles.	A hand = 4 inches.	A fathom = 6 feet.
Geographical degree = 60 geographical or nautical miles = 69·121 imperial miles.		
Geographical mile = 1·150 imperial miles.	A military pace = 2½ feet.	

## CUBIC MEASURE.

	Cubic feet.	Cubic inches.
Cubic yard.	1	= 1728
1	= 27	= 46656
1 Ton of Shipping	=	40 cubic feet.
1 Barrel Bulk	=	5 " "

## WEIGHTS AND MEASURES—Continued.

### LIQUID MEASURE.

	Quarts.	Pints.	Gills.
Gallon.	1	2	4
1	= 4	= 8	= 32

A hogshead (hhd.) contains 63 gallons. A pipe is 2 hogsheads, and 2 pipes form a tun. All liquids are measured by this table.

### GRAIN MEASURE, &c.

	Bushels.	Pecks.	Gallons.
Quarter.	1	4	8
1	= 4	= 16	= 32
1 Boll of Wheat	= 4 bushels nearly.		
1 Boll of Barley	= 6 " "		
5 Bushels	are a sack.		
5 Quarters	make a load.		

### SQUARE MEASURE.

	Sq. yards.	Sq. feet.	Sq. in.
Sq. poles.	1	= 9	= 1296
Sq. roods.	1	= 30 $\frac{1}{4}$	= 272 $\frac{1}{4}$
Sq. acre.	1	= 40 = 1210	= 10890 = 1568160
1	= 4 = 160	= 4840 = 43560	= 6272640

1 square mile = 640 acres: 36 square yards = 1 rood of building: 100 square feet = 1 square of flooring: 272 $\frac{1}{4}$  square feet = 1 rood of bricklayer's work. The chain with which land is measured is 22 yards long, and 1 square chain = 10,000 square links, contains 22 x 22 = 484 square yards: 10 square chains = 1 acre.

### TABLE OF TIME.

	Hours.	Minutes.	Seconds.
Days.	1	= 60	= 3600
Week.	1	= 24 = 1440	= 86400
1	= 7 = 168	= 10080	= 604800
1 Common Year	= 365 days, or 52 weeks 1 day.		
1 Leap Year	= 366 days, or 52 weeks 2 days.		
1 Solar Year	= 365 days 5 hours 48 minutes 49 seconds.		

### GEOGRAPHICAL MEASURE.

1 Geographical mile	= 1 $\frac{3}{4}$ imperial mile of 6,076 feet.
3	miles = 1 league.
60	" miles = 1 degree, marked <i>deg.</i> or [°].
360	" degs. or about 24,855 $\frac{1}{4}$ imperial miles = Circumference of the earth.

### BREAD WEIGHT.

	lb.	oz.
A Peck Loaf weighs	..	17 6 $\frac{1}{2}$
A Half-Peck Loaf..	..	8 11
A Quatern Loaf ..	..	4 5
A Peck or Stone of Four	..	14 0
A Bushel of Flour	..	56 6
A Sack of Flour, or 5 Bushels	..	280 0

### USEFUL WEIGHTS.

The following Table will be found useful when it is desired to ascertain the weight of a letter or other article, and suitable weights are not at hand. The weight given is that of coins fairly worn; allowance must be made if those used be new or very old—

$\frac{1}{4}$ oz.	..	Half-penny and three penny piece.
$\frac{1}{2}$ "	..	One penny piece.
$\frac{1}{4}$ "	..	Florin and sixpence.
1 "	..	Three pennies.
2 "	..	4 half-crowns and one shilling.
4 "	..	4 florins, 4 half-crowns, 2 $\frac{1}{2}$ pennies.

### BOOKS.

	Pages.	Leaves.	Sheets.
Folio Books ..	.. 4 or 2	make 1	
Quarto, or 4to. ..	.. 8	" 4	" 1
Octavo, 8vo. ..	.. 16	" 8	" 1
Duodecimo, or 12mo. ..	.. 24	" 12	" 1
Octodecimo, or 18mo. ..	.. 36	" 18	" 1
24mo., 32mo., 48mo., 72mo., &c., &c.			

## BAROMETER INSTRUCTIONS.

(Compiled by the late Admiral Fitzroy, F.R.S.)

The barometer should be set regularly by a duly-authorised person about sunrise, noon, and sunset.

The words on scales of barometers should not be so much regarded for weather indications as the RISING or FALLING of the mercury; for if it stand at CHANGEABLE (29.50) and then rise towards FAIR (30.00) it presages a change of wind or weather, though not so great as if the mercury had risen higher; and, on the contrary, if the mercury stand above FAIR and then fall it presages a change, though not to so great a degree as if it had stood lower; beside which, the direction and force of wind are not in any way noticed.

It is not from the point at which the mercury may stand that we are alone to form a judgment of the state of the weather, but from its RISING or FALLING; and from the movements of immediately PRECEDING

days as well as hours, keeping in mind effects of change of DIRECTION, and dryness or moisture, as well as alteration of force or strength of wind.

It should always be remembered that the state of the air FORETELLS COMING weather rather than shows the weather that is PRESENT—(an invaluable fact too often overlooked)—that the longer the time between the signs and the change foretold by them the longer such altered weather will last; and, on the contrary, the less the time between a warning and a change the shorter will be the continuance of such foretold weather.

If the barometer has been about its ordinary height, say near 30 inches at the sea-level, and is steady on rising, while the thermometer falls and dampness becomes less, north-westerly, northerly, north-easterly wind, or less wind, less rain or snow may be expected.



## BAROMETER INSTRUCTIONS—*Continued.*

On the contrary, if a fall takes place with a rising thermometer and increased dampness, wind and rain may be expected from the south-eastward, southward, or south-westward. A fall with low thermometer foretells snow.

When the barometer is rather below its ordinary height, say down to near 29½ inches (at sea-level), a rise foretells less wind, or a change in its direction towards the northward, or less wet; but when it has been very low, about 29 inches, the first rising usually precedes or indicates strong wind—at times heavy squalls—from the north-westward, northward, or north-eastward, AFTER which violence a gradually rising glass foretells improving weather; if the thermometer falls, but if the warmth continues, probably the wind will back (shift against the sun's course), and more southerly or south-westerly wind will follow, especially if the barometer rise is sudden.

The most dangerous shifts of wind, or the HEAVIEST northerly gales, happen soon after the barometer first rises from a very low point; or if the wind veers GRADUALLY, at some time afterwards.

Indications of approaching change of weather and the direction and force of winds are shown less by the height of the barometer than by its falling or rising. Nevertheless, a height of more than 30 (30.00) inches (at the level of the sea) is indicative of fine weather and MODERATE winds, except from east to north, OCCASIONALLY.

A rapid rise of the barometer indicates unsettled weather, a slow movement the contrary; as likewise a STEADY barometer, when continued and with dryness, foretells very fine weather.

A rapid and considerable fall is a sign of stormy weather, and rain or snow. Alternate rising and sinking indicates unsettled or threatening weather.

The greatest depressions of the barometer are with gales from S.E., S., or S.W.; the greatest deviations, with wind from N.W., N., or N.E., or with calm.

A sudden fall of the barometer, with a westerly wind, is sometimes followed by a violent storm from N.W., N., or N.E.

If a gale sets in from the E. or S.E., and the wind veers by the south, the barometer will continue falling until the wind is near a marked change, when a lull MAY occur; after which the gale will soon be renewed, perhaps suddenly and violently, and the veering of the wind towards the N.W., N., or N.E. will be indicated by a rising of the barometer, with a fall of the thermometer.

After very warm and calm weather a storm or squall, with rain, may follow; likewise at any time when the atmosphere is HEATED much above the USUAL temperature of the season.

To know the state of the air not only the barometer AND THERMOMETER, but appearances of the sky should be vigilantly watched.

## SIGNS OF WEATHER.

Whether clear or cloudy, a rosy sky at sunset presages fine weather; a red sky in the morning, bad weather, or much wind, perhaps rain; a grey sky in the morning, fine weather; a high dawn, wind; a low dawn, fair weather.\*

Soft-looking or delicate clouds foretell fine weather, with moderate or light breezes; hard-edged, oily-looking clouds, wind. A dark, gloomy blue sky is windy, but a light, bright blue sky indicates fine weather. Generally, the softer the clouds look, the less wind (but perhaps more rain) may be expected; and the harder, more "greasy," rolled, tufted, or ragged, the stronger the coming wind will prove. Also a bright yellow sky at sunset presages wind; a pale yellow, wet; and thus, by the prevalence of red, yellow, or grey tints, the coming weather may be foretold very nearly—indeed, if aided by instruments, almost exactly.

Small inky-looking clouds foretell rain; light scud clouds driving across heavy masses show wind and rain, but if alone may indicate wind only.

High upper clouds crossing the sun, moon, or stars in a direction different from that of the lower clouds, or the wind then felt below, foretell a change of wind.

After fine, clear weather, the first signs in the sky of a coming change are usually light streaks, curls, wisps or mottled patches of white distant clouds, which increase, and are followed by an overcasting of murky

vapour that grows into cloudiness. This appearance, more or less oily or watery as wind or rain will prevail, is an infallible sign.

Light, delicate, quiet tints or colours, with soft, undefined forms of clouds, indicate and accompany fine weather; but gaudy or unusual hues, with hard, definitely-outlined clouds, foretell rain, and probably strong wind.

When sea-birds fly out early and far to seaward, moderate wind and fair weather may be expected. When they hang about the land, or over it, sometimes flying inland, expect a strong wind, with stormy weather. As many creatures beside birds are affected by the approach of rain or wind, such indications should not be slighted by an observer who wishes to foresee weather.

Remarkable clearness of atmosphere near the horizon, distant objects such as hills unusually visible, or raised (by refraction),† and what is called a "good HEARING day," may be mentioned among signs of wet, if not wind, to be expected.

More than usual twinkling of the stars, indistinctness or apparent multiplication of the moon's horns, haloes, "wind-dogs" (fragments or pieces of rainbows, sometimes called "wind-galls") seen on detached clouds, and the rainbow, are more or less significant of increasing wind, if not approaching rain with or without wind.

Lastly, the dryness or dampness of the air, and its temperature (for the season), should ALWAYS be considered WITH OTHER indications of change or continuance of wind and weather.

† Much refraction is a sign of easterly wind.

\* A high dawn is when the first indications of daylight are seen above a bank of clouds. A low dawn is when the day breaks on or near the horizon, the first streaks of light being very low down.

## OUR NOTE BOOK, 1893-4.

**Acorns and Acorn-Poisoning.**—The abundance of acorns during the past year has by no means proved an unmixed blessing, great as has been the scarcity of other food. Some descriptions of stock have done very well upon acorns, and have not shown any ill effects from eating freely of them. Seasoned cows and other cattle have eaten them greedily, in the absence of other food, and been apparently none the worse; and it has been found that sheep will do well upon them when stored and given in the troughs with other food. A case was recently mentioned in the newspapers in which a number of lambs were doing well and getting fat on a pint-and-a-quarter of acorns with as many sliced swedes as they would eat, and nothing more. This is a very cheap way of fattening lambs, if they continue well, and the meat turns out satisfactorily; but this remains to be proved. Stored acorns, given in moderation, however, are certainly not deleterious, and this, no doubt, is at once the safest and most profitable way of utilizing them, as the cost of collecting in plentiful seasons is very moderate. Amongst young cattle numerous cases of what has been called "acorn-poisoning" have occurred, and been sometimes attended with fatal results, whilst in almost every case the consequences have been serious. Poisoning is perhaps too strong a word to apply under the circumstances, from a strictly scientific point of view. The close texture of the acorn, and the acrid juices it contains when just fallen, are accountable for the mischief which results when young cattle eat ravenously of acorns in the field, as they naturally will do when grass is scarce, and sometimes even when it is plentiful, and the best remedy is to keep them away from temptation.

**Agricultural Banks.**—During the past year a movement has been set on foot for the establishment of Agricultural Banks in this country, on the lines of the Continental People's Banks, which are based on the co-operative principle, and have been found of signal service to the small farmers, owners and foresters of Germany, Austro-Hungary, Italy and Belgium. An association has been formed, called the Agricultural Banks Association, having Mr. R. A. Yerburgh, M.P. for Chester, as chairman, for the purpose of promoting such banks in rural districts, chiefly for the assistance of small holders. Whether there are, or are likely to be, a sufficient number of small holders within a limited area, to afford scope for such institutions remains to be seen, but the movement is a laudable one in any case, and one that possibly admits of enlargement, so as to adapt it to the different circumstances of this country.

**Allotments and Small Holdings.**—The question of allotments and small holdings is being so forcibly and persistently obtruded on public notice generally, and on all landowners in particular, that it is impossible for the latter altogether to ignore it, even when feeling inclined to do so. Allotments for labourers settled on an estate it is always wise to provide in some form, when really called for, as they attach good men and help to make their position a comfortable one. Even in this matter,

however, it is necessary to exercise a great deal of circumspection, and not to be led away by any fictitious demand that may be got up by one or two busy people desiring to make themselves conspicuous. In the interests of the men themselves it is far better that the allotments should be spread about, a few in a place where an odd bit of land can be taken without being missed, than that they should all be crowded together just outside a village, where, after all, they may be inconveniently distant for the very men it is most desirable to accommodate. It should never be lost sight of, either, that the very best form of allotment a labourer can have is a garden attached to his cottage. In some cases this is not possible, especially in large villages, and then a piece of allotment ground may be needful, but, although cottage building is not a very attractive form of investment when money is so often wanted other ways, it is most desirable in the best interests of all connected with the land that as many cottages with good, that is, large gardens attached to them as possible, should be provided on every estate, for men permanently working on it, whether regularly or not. There is a very useful class of men in districts where underwood abounds who find employment through the winter in working it up, and for these a garden or allotment on a large scale is a very great help, as they generally have ample time on hand to cultivate it. These are the men, in fact, to whom a small holding would be serviceable, if to any class of labourers, but they are not numerous, and the question of making the fullest provision for their requirements in this direction is not a very formidable one, especially as only a percentage of them would care to undertake the responsibility. All that needs to be done in this respect, as well as in the provision of allotments, may easily be done by voluntary action without the intervention of any public body, and it is far better that this should be so. Public machinery for a purpose of this kind, generally devised by people very inadequately acquainted with the circumstances, is not only likely to prove expensive, but wasteful and cumbrous. It cannot well be set in motion on a small scale; more land must be taken up than there is any legitimate demand for, and hence serious difficulties and complications, involving perhaps a heavy demand on the rates are very likely to ensue. Whatever may be asserted to the contrary, this legitimate demand for small holdings is a very limited one, and no kind of public nursing is capable of rapidly expanding it. Money, skill and judgment are all requisite to the successful cultivation of a small holding; those possessed of them amongst agricultural labourers, or any other class, are very few, and no Act of Parliament can be drafted which will confer the last two on any one; whilst without them, the money, by whomsoever invested, must be worse than wasted. Successful small holdings must necessarily be of very slow growth.

**Animals in Disease, Home Treatment of.**—A word or two in season may not be out of place with regard to the home treatment of animals in disease, and it applies equally to all descriptions; horses, dogs, cattle, sheep and swine. There is a class of people who

think they know all about this subject, but their knowledge, if so it may be termed, is practically worse than useless. It consists, principally, in some recipe or specific compounded of all sorts of drugs, to be poured down the throat of the animal in the form of a drench or drink, and is often prescribed and administered as a cure for diseases of the most opposite description. The most advanced medical science shows that treatment of this kind—internal dosing—whether applied to man or beast, is a mistake. In many cases it can do no good, and may do a great deal of harm. So with external applications; the constant rubbing in of heating oils often only tends to inflame the affected part and make it worse. Fomentation with hot or tepid water, will, in nine cases out of ten, be much more effectual.

**Anthrax.**—During the past year there have been some very unusual manifestations of this virulent disease, and several human beings have fallen victims to it. In one case a man engaged in removing manure from a stable in London was attacked, and soon succumbed, and in another, the victim had been engaged in handling foreign hides, and with him, also, the result was fatal. There seems to be little doubt that the anthrax spores or microbes are brought to this country in large quantities in hides and wool, but the difficulty lies in devising some method of destroying them, which will not be injurious to the hides or wool as well. Possibly, our chemists will presently be able to discover something, which will answer the desired purpose. They have not done so up to the present, and we may therefore expect further unpleasant manifestations of the presence of the anthrax spore among us. It is carried into the country from London in stable manure, which, being spread on the fields, infects them, and makes it dangerous for any kind of stock to be placed on such fields. Instances have occurred during the past year, of flocks of sheep being thus infected, and a considerable mortality has resulted among them, whilst they become the medium through which the mischief is further spread. This is an appalling prospect, especially as at present there is no fund from which compensation can be given to the owners of stock dying from an attack of anthrax. There is, at any rate, a remedy for this, and, if the mischief increases, it will become the duty of the Board of Agriculture to obtain powers from Parliament, for dealing comprehensively with it, by stamping out in cases where the disease actually prevails, and by taking such means as are possible to prevent the diffusion of the spores. In cases where the microbes have got into fields, the only effectual way of getting rid of them is by a complete summer fallow, during which the ground should be kept constantly stirred, so as to expose every part of it to the direct action of the sunshine, which is deadly to the anthrax spore or microbe.

**Ants, House.**—There can be few more troublesome or disagreeable visitors to a country house than ants. When once they have obtained a lodgment in the floors there is the greatest difficulty in getting rid of them. They overrun everything, nothing is sacred from their invasions, and nothing any the better for a visit from them. Pantries and larders are special objects of attack, and they overrun the food, if at all accessible to them, in a way that is very unpleasant to think of. They are, moreover, very difficult to get rid of, from their numbers and size, and their capacity for boring, or burrowing into everything, and making nests, and establishing colonies in totally inaccessible places. The only effectual way of dislodging them, is by putting down some chemical preparation of a sweet taste,

which will attract them. A coarse sponge, saturated with some saccharine solution, will draw them into its cavities, when they may be destroyed by immersion in boiling water. Carbolic acid drives them back for a time, but the smell of the remedy is almost worse than the complaint. Some entice them into traps or nests made in flower-pots, with loose sand or mould at the bottom and a covering of loose leaves. They will soon make this their home, and may be removed anywhere in it.

**Beech, The.**—As beech is a tree which grows well in plantations and large woods, it is well worth the attention of estate owners who are looking round for a means of turning some of their unprofitable land to better account. From the fact of its being chiefly found in two or three counties or zones it is generally supposed to be a difficult wood to grow; but this is scarcely the case. It will grow well on almost any land having a chalk or limestone subsoil, especially the former, and it is not at all necessary that the surface soil should be a rich, although it must certainly be a dry one. Artistic effect is somewhat beside the point in matters in which profit is concerned, but there is no grander or more impressive sight in England than a beech wood in summer, when the trees are in full foliage. Beech timber is in request for so many purposes that there is room for a few more beech woods yet, and they pay well although the price realized per foot for the timber is not a high one in comparison with some other woods.

**Bee Farm, A Modern.**—The term modern seems almost superfluous here, for assuredly our ancestors, although well versed in the art of bee-keeping, never thought of doing so in such a way as to suggest a farm. A larger or smaller number of hives in a garden, or near it, was the extent of ancient enterprise in bee-keeping, but in modern times, that is, in the present day, not even fifty years ago, some have gone much beyond this, for in the work before us under the above title, directions are given not merely for supplying bees with artificial nitrogenous food in their hives when the natural food they gather in the fields is scarce, but for *planting* shrubs and trees in the vicinity of the hives on purpose to supply them with the means of obtaining honey. This may truly be called bee-farming, and this is what is meant by it, and those who wish to become bee-farmers in this sense cannot do better than consult Mr. S. Simmins' work, published by Woodford, Fawcett & Co., 112, Fleet Street, E.C., which is very complete.

**Bee-keeping.**—The art of bee-keeping is one not easily acquired. Some old cottage mothers seem to be born bee-keepers, and, with the rudest appliances and most old-fashioned and unhandy hives, will raise more swarms and obtain more honey and wax from them than other people with all the literature on the subject at their fingers ends and all the newest and most costly apparatus at their command. It does not follow from this, however, that old ways are best, a fact fully recognised and understood, even by the ancient bee-mothers themselves, for they are eagerly availing themselves, when their means will allow, of the new hives, which admit of the honey being taken without destroying the bees. Much has lately been said about the advisability of promoting the bee industry amongst cottagers, but it is doubtful whether a very largely increased output of honey would meet with a ready market. When sugar was much dearer than it is now, home-made honey was a desideratum, but its use, and the demand for it, are certainly not on the increase at the present time.

**Billiards.**—Interest in the billiard season of 1893 is chiefly concentrated on the doings of J. Roberts, Jr., the undoubted champion of the English game. After contending, in the earlier part of the year, with North, McNeil and Diggle, conceding 8,000 points out of 24,000, and winning easily in each, a match was arranged between Peall and Roberts for £200 a-side, the champion conceding 9,000 points out of the 24,000 in this case. He again won, but in his next encounter with C. Dawson, a North country player, on the same conditions, Dawson won by 1,993 points. The event of the year, however, was the meeting of the champion with Ives, an American player, once here and once at Chicago. In these encounters it is useless to deny that our champion was worsted, not perhaps, by what we should call good all round play, but by the peculiar tactics of his opponent, who, getting the balls jammed in the right hand corner, kept cannoning until he had made a 2,539 break. This settled the match practically, for although Roberts had several opportunities of following the same tactics, he invariably broke up the balls after a few cannons. In the American matches, Ives adopted the same plan, with the same result to our champion, whose visit to America appears neither to have improved his reputation nor his finances.

**Brewers' Grains.**—Now that town dairies have, for the most part, been done away with, most of the grains produced at the great breweries and distilleries find their way into the country, and quite a trade has sprung up in connection with them. Where the milk produced on a farm is sent off by rail, to be sold in towns, grains may be a very suitable supplementary food, if they can be bought at a cheap rate, as their forcing qualities are assumed to be great; but in dairies where butter or cheese-making is carried on, they are neither desirable nor profitable, as they distinctly lower the quality of the milk, especially its percentage of butter-fat. Some recent experiments, if correctly reported, have shown that brewers' grains are almost the only known food given to cows, which can be explicitly charged with producing this effect. Whether this can be substantiated or not, it is certain that, for butter and cheese-making purposes, they are best avoided.

**Burglars, Beware of.**—Of all the unexpected and unwelcome visitors to a country house, the burglar is the worst. A colony of ants is bad enough, mice, cockroaches, wasps and bluebottle flies, have all their objectionable sides, and the visits of one and all of them could be dispensed with easily, and without regret, but they are as nothing compared with the sneaking, murderous burglar, with his silent matches, list slippers, jemmy, and occasional revolver, creeping about the house at dead of night, slipping into your bedroom, rifling your jewel case, perhaps feeling your pockets, even holding his light over your face to see if you are really asleep, or merely shamming, in which latter case he may resort to brutal extremities, slipping out again, and finally regaling himself in the larder or butler's pantry. It is enough to make one's blood creep to think of all this as even within the range of the remotest possibilities in these advanced days, yet it is not only so, but a thing of comparatively frequent occurrence, and rarely does a winter go past but we hear of such predatory visits being most successfully made, the nefarious visitors getting off without detection, and carrying with them a booty rich enough to amply compensate for all the risks of the undertaking. When such a thing occurs the newspapers for a few days teem with suggestions of every conceivable kind,

but either they are not followed or prove utterly inefficacious, for the next winter, perhaps within the next month, we hear of just such another case. The question is, what is the best plan to adopt for preventing visits of this kind, successful visits, in which the plunder is great and the thief goes undetected? The answer to this question is not at all an obvious one. It is much more easy to point out what not to do than what to do, but one thing may be asserted with considerable confidence, and that is, that complicated systems of offence and defence, involving electric wires and buttons, burglar alarms, or networks of wire or string running all about the place, are of very little use for the purpose they are intended for, and a great nuisance in every other respect; if they entrap anyone, it is some perfectly innocent individual, if any alarm is given, it is an entirely baseless one whilst the feeling of false security engendered by them often contributes to the successful accomplishment of the very object they are intended to defeat. If a burglar is ever caught, it is not by such agencies as these, but by some piece of over confidence or reckless audacity on his own part. The safest plan to adopt in a house large enough to attract visitors of this unpleasant description, is for every one, whether hostess or guest, having specially valuable jewellery, to make an invariable rule of putting it in a safe place every night before going to bed, and not allowing it to lie about on dressing tables or other exposed places under any circumstances whatever. When the place in which such articles are deposited is known only to the owner and one or two personal attendants, it is a much more easy matter to fix responsibility in the event of a loss, and with regard to any assumed collusion between burglars and servants, into which the latter may sometimes be innocently drawn, it is far less likely to occur when valuables are deposited in some such safe place as suggested than when they are allowed to lie about. In some way burglars are supposed to get information of the habits and valuable personal possessions of the occupants of houses they propose to attempt, and if that information were to the effect that all such things were carefully stowed away every night, they would in all probability give the house a wide berth, as the risk of detection would increase in proportion to the inaccessibility of the plunder.

**Calves, Rearing.**—There is nothing equal to allowing a calf to run with the mother a few months for developing its frame and building up something grand for the future; but as this involves the sacrifice of the mother's whole season, and utterly disqualifies her for ordinary dairy purposes, it is not to be thought of except in rare cases, in which the offspring is almost certain to realize an extraordinary price—a very rare case indeed at present. There is no need, however, of adopting this extreme course in order to rear good stock with ample frames and fine capacity for growth. Separated milk fortified with a little fine oatmeal, if carefully given, will be found to answer the purpose better than almost anything else. Linseed, which is a favourite food with many who rear calves by hand, should be avoided, or at any rate given in very small proportions. Its tendency is to make fat, whereas bone and frame are the things to aim at in raising young stock, and for these there is nothing equal to oatmeal. Much depends on the care and attention the calves receive, especially in feeding, for if they are not skilfully managed in the first place they will never take kindly to prepared food, and consequently will never thrive. A little hay tea mixed with the milk will help them, and they should, of course, be taught to feed on hay or grass as soon as possible.

**Caterpillars, Orchard.**—The ravages of the Caterpillar moth amongst the fruit trees in the West of England continue almost unabated, and threaten to extend to other parts of the country in spite of the remedial measures taken to check them. Some of these remedial measures, such as tarring the trunks of trees, applying sticky bandages to them and to the branches, greasing the trunks and affixing greased paper to them, are no doubt effective to a certain small extent in diminishing the number of moths for a time, but certainly not in getting rid of them altogether. The best plan for doing that or approaching as nearly to it as possible, is that recommended by Miss Ormerod, viz.:—syringing or finely spraying the trees with Paris Green. This plan, which comes from America, has been found the most effective of any, as it destroys eggs of insects as well as insects themselves, but great care must be exercised in its application, as Paris Green is a poison. Miss Ormerod's leaflet on the subject gives fuller and better directions than space will admit of here.

**Cattle.**—The exceptional drought of last year had a prejudicial influence even on the demand for pedigree stock, the sales of which, both public and private, were therefore marked by a degree of dulness, which can scarcely be regarded as normal. Shorthorns, even of the best strains, felt the full force of this depressing influence and the number of instances in which three figures were secured for animals of this breed throughout the whole season would not much exceed those of a single sale in former and more flourishing times. A careful search of the year's transactions in Shorthorn pedigree stock fails to disclose one really good price secured, and 33 guineas represents about the highest average attained at any public sale. Not even the attractions of Sandringham could induce a better average for cows and heifers than this, or so good, the Prince of Wales's averaging only £30 15s., and it is difficult to escape the conclusion, that in point of fashion, Shorthorns are, for the time being, somewhat on the wane. Aberdeen Angus Cattle, on the other hand, may be said to be coming distinctly to the front, and at least dividing popularity with the more widely known breed. Evidence of this is to be found in the smaller extent to which prices for choice specimens of this breed have been affected by the depressing circumstances of the year, and although the high level of 1892 was not quite maintained in 1893, much better averages were made at several public sales than any that can be placed to the account of Shorthorns. It may be only a temporary fancy, but fashion amongst cattle is undoubtedly setting at the present time towards the Aberdeen Angus and its kindred breeds the Black, and, to some small extent, Red Polls. Herefords during the past year have chiefly been in request for the United States, where a fancy for them may be said to have been gradually growing for some years past. With regard to the home demand for this grand breed of cattle, it is so strictly local that few accounts of sales, public or private, travel far beyond the districts to which it specially pertains, and the late season was against any very brisk business being done there or elsewhere. Devons are another breed which may be characterized as rather local than national, although possessing distinctive qualities of a high order, only requiring to be more widely known to be appreciated. An important step in the direction of securing for them this further publicity was taken during the past year by the Devon Cattle Breeders' Society, which has published an excellent history of the breed, full of interesting facts concerning its origin, habits and capabilities, both for beefmaking and dairying purposes. Jerseys still continue to maintain

their hold upon the public as the perfection of dairy cattle in districts suitable for them, where the pastures are fairly good, and the climate not too severe. The fact of their being good cheese as well as butter-makers has apparently been proved by the great contest at Chicago, between a number of cows of this, of the kindred Guernsey, and of the Shorthorn breeds, respectively. Something further in relation to the Jerseys will be found under the heading "Churn Test." There was again a decrease in the number of cattle of all ages kept in the United Kingdom and Ireland during the past year, the totals being:—1893, 11,207,554, while in 1892 we had 11,519,417, a small decrease of 311,857 is thus shown to have taken place, not so proportionately large, perhaps, as in the case of sheep, but still regrettable.

**Cattle Cabbage.**—The Agricultural Returns for 1893 do not show much elasticity in the growth and cultivation of cabbage, the acreage of which remains almost stationary. Yet cattle cabbage is one of our heaviest and most valuable fodder crops, throwing an enormous weight of succulent food, adapted for all kinds of live stock, cattle, sheep and pigs, to the acre. A few acres of autumn cabbage will maintain and fatten, with the aid of corn or cake, of course, a large flock of sheep for several weeks when few roots are forward enough for use: yet not on one sheep farm in a hundred do we find cabbage regularly and systematically grown. Cabbage planted in the fall of 1892 would have got a sufficient hold of the ground to withstand the drought of last summer, and been found invaluable for cows and other stock when the pastures were brown and bare. It was seldom seen, however, and there is something ominous in this neglect by our farmers of a crop of the tried and proved value of which they must all have some knowledge. It seems to indicate a giving up—a failure of enterprise just when enterprise is most needed.

**Cereals and Grasses, Crossing.**—A series of very interesting and successful experiments in the crossing of cereals and grasses have been going forward for some little time in Lancashire, and the results in some cases are spoken of as truly marvellous. All sorts of hybrid grains have been produced, and their capability of growing and reproducing so as to perpetuate the type demonstrated by successive experiments extending over several seasons. The importance of being able in this way to create, so to speak, grains and grasses especially adapted to this or any other particular climate can scarcely be overrated, and if the experiments have been as successful as reported it is a question as to whether they ought not to be taken up by the public agricultural authorities and carried to their legitimate conclusion, especially if, as was hinted a little time ago, there is a danger of their coming to a stop through want of means on the part of the ingenious experimentalists who have originated them.

**Chicory—as a Forage Plant.**—It is said that chicory makes an excellent forage plant, especially in dry, droughty seasons, like the past, which suit it well, and, as it is in such seasons that supplementary forage is most required, chicory should be worth attention from all stock-owners. It appears to thrive best on loamy soils, but it will grow, and to some extent flourish on almost any description of land, except, perhaps, a very heavy clay. It should be drilled by means of an ordinary turnip drill, in rows, from 16 to 18 inches apart, and, when the plants are large enough to be thinned, a space of about a foot should be left between each one; 10 lbs. of seed is the usual quantity. It comes in well after wheat, and the ground intended

for it should have a good dressing of farm-yard manure, in the fall. Being of a very hardy nature, it may be drilled as early as the middle of March, and other drillings continued up to July. It may be fed off by sheep folded on it, or cut green, and carted away for soiling, or both practices may be adopted simultaneously, in strips, so as to dress the land by the sheep

**Churn Test, The.**—A sort of running fire has been kept up during the past year between the English Jersey Cattle Society on the one hand, and the Dairy Committee of the Royal Agricultural Society on the other, over what is technically known as the "Churn Test," as opposed to the test by analysis. The Council of the Jersey Cattle Society believing that full justice can only be done to the supreme butter-making capabilities of their breed of cows by the actual test of the churn, have stood out for it being applied in all breed competitions, and, in order to secure their object, offered a special price of £25 for the cow making the most butter in a contest at the Royal Society's Country Meeting. After considerable demur and a large amount of correspondence this offer was accepted for the Chester Show, but has been declined for the Cambridge Show of the present year; the letter declining it referring the Council of the Jersey Society to a note on the subject in the last Quarterly Journal of the R.A.S.E. That note is by Dr. Voelcker, who analysed the milk of the cows engaged in the contest at the Chester Meeting in which the Jersey Society's prize of £25 was competed for, and the results of the churn test and the analysis appear to approximate very closely. In Division A the respective positions of the cows came out as follows:—

By the Churn Test . . . 1 . . 2 . . 3 . . 4 . . 5 . . 6

By the Chemical Test . . 1 . . 2 . . 3 . . 5 . . 4 . . 6

According to this the prizes would have gone to the same cows, whichever test had been adopted, the only difference being in the placing of the fourth and fifth cows. The Jersey Cattle Society, however, still stoutly adheres to its preference for the Churn Test.

**Cider-Making.**—There is no denying that we are apt to get into grooves in connection with agricultural matters in this country and not to make any great efforts to get out of them. In this way, beer having been accepted as the national beverage, all attention has been concentrated upon it and the materials of which it is or should be made, whilst cider, which has quite as much claim to the title, has been much neglected, few efforts having been made, at any rate, to improve its manufacture, so as to keep pace with the times and make a marketable commodity of it. That if this were done and cider properly "boomed," the consumption of it might be vastly increased in a little time there is no doubt whatever. This fact should have an important bearing on the planting of apple orchards in all suitable districts, because it is a great advantage to have a means of profitably utilizing any residue of the crop which cannot be well marketed. The art of cider-making is, therefore, one that should be studied; it is a very simple one and any improvements in it should be in the direction of making it more simple still. A mill or masticator of some kind is required, and here there is room for improvement the first; after that comes the press, which might also be improved a little. These two implements, with a sufficient number of clean, sweet casks, constitute all the plant a cider-maker requires, and the implements may be hired. The true "art" of cider-making consists in the proper selection and sorting of the apples so as to produce fine and varied qualities, and in storing and preserving the juice afterwards.

**Clover, Manuring.**—Clover is one of those few crops which may be said, in one sense, to put more into the land than they take out of it, owing to their capacity for attracting and utilizing the nitrogen in the air, or soil, or both. Notwithstanding this property, however, which it possesses in a more marked and unmistakable degree than any other leguminous plant, red clover is very susceptible to the application of certain descriptions of manure, and well repays the outlay in the shape of a greatly increased crop. The best dressing that can be applied to it, is good farm-yard manure, put on and spread in the late fall, or early winter, before the frosts have set in. Nitrate of soda, or sulphate of ammonia, are of little use to it, whether applied in the fall or spring. Of artificial dressings, superphosphate and kainit are undoubtedly the best and most suitable.

**Clover Sickness.**—There were a great many failures in the clover plant last year, but how far they were due to the prevailing drought, and how far they were due to the prevailing sickness, is a moot point. There is, indeed, a wide divergence of opinion, as to what the failure of red clover in ordinary years really proceeds from. The latest and most confident assertion is, that clover sickness is due to the ravages of a little parasite known as the eelworm, which infests the stems and stalks of the clover plant, but those who advanced this theory have now toned down to some extent, and call their discovery clover-stem sickness, which is altogether a different thing from clover sickness. A dressing of sulphate of iron has been recommended for the former, and been found effectual in staying the ravages of the eelworm, but the cause of true clover sickness remains as much a mystery as ever, and the only thing that can be done is not to take a crop of red clover, except at long intervals apart.

**Coaching.**—When we hear that the Post Office Authorities have taken to running mail coaches again, not in remote districts where no railways exist, but in and out of the metropolis itself, and when we see also so many smart teams on the road, we may almost begin to think the old coaching days are about to be restored to us. Coaching is certainly advancing in popularity, and the meets of the Four-in-Hand and other Coaching Clubs at Hyde Park Corner during the season have become quite important functions, graced by a large attendance of beauty and fashion. Whether, outside the metropolitan district, the coach or drag is in such almost universal request, is a question, but the number of coaches on all the roads within a twenty miles radius of London must be something very considerable indeed. Scarcely a town of any importance, either from its size or associations, is neglected, and coaching as a pursuit in which pleasure and profit may be combined—for what greater pleasure is there in the world than piloting a good team—is becoming quite the order of the day.

**Colour Blending.**—The art of blending colours on lawns and in shrubberies so as to produce new and striking artistic effects is one admitting of considerable further development. The prevailing tendency to range or mass flowers in one shade of colour, with perhaps a border of another tint to relieve or set it off, is one not rashly to be departed from, of course, for the effect is known and reliable, whereas in attempting innovations the effects produced, although startling enough, may be utterly *bizarre* and disagreeable. The best plan to adopt, therefore, before attempting anything of the kind, is to try the experiment with cut flowers, and when this is done by anyone possessed of true artistic

taste, the combinations struck out will often be so effective and striking as to surprise the very operator. It is generally a few tints which produce the best effect, but with regard to this, much depends on the skill and taste of the artist. Shrubs, from their varied tints, are equally amenable to this kind of treatment, and the effect, whilst not less striking, is more likely to be certain and, of course, more enduring.

**Colt-Cradles.**—Nothing retards the healing of a wound, or the cure of an affection of the skin, or any other outward ailment more than the propensity all animals have to gnaw or bite the affected part, probably with the instinctive hope of allaying the irritation. They should be prevented from doing this in every case, and the most effectual preventative is a "cradle" placed round the neck, which, whilst it does not prevent them from feeding, even on grass, or lying down, or performing any other legitimate function, puts it out of their power to reach the affected place. The handiest way of making such a cradle is, to get pieces of lath or hazel-rod, if the latter, flatten the ends with a knife and bore a hole through each end, then run a strong string or small rope, or better still, a leather thong through the holes in such a way as to keep the sticks a proper distance apart, then tie the cradle round the animal's neck.

**Conifers, Ornamental.**—Some of the cone-bearing trees and shrubs are extremely beautiful in appearance and no grounds should be without a few of them. As one of the most hardy and not among the least ornamental the Silver Fir, of which there are several varieties, deserves honorable mention. It is similar in some respects to the spruce, but of a darker and more lustrous foliage. Unlike most other cone-bearing trees its seeds are easily liberated from the cones or apples, and it is, therefore, capable of easy reproduction, a tendency which requires to be watched. Among the varieties may be mentioned the great Californian Silver Fir, the Spanish Silver, and the lovely Silver Fir which well deserves its name. The *Cedrus deodora* or Indian Cedar is another ornamental conifer which shows up to great advantage on lawns, and will grow and thrive on most soils and in most situations, and the same may be said of *Cryptomeria Japonica* or Japan Cedar, which is a most elegant tree and grows freely in most soils.

**Corn Crops of 1893.**—The harvest of 1893 was a notable one in several respects, not so much by reason of its being either a very good one or a very bad one, but on account of its peculiarities. Wheat, for instance, should have been an excellent crop in such a season as the last, abounding in sunshine and dry weather, conditions in which this cereal is supposed to thrive more than in any other. Yet we find that not only was the acreage of wheat much reduced last year, from 2,298,607 acres in 1892 to 1,955,213 acres in 1893, but the yield per acre is considerably diminished. The estimated yield per acre of the last year's wheat crop is 25·95 bushels, whereas that of 1892 was 26·20 bushels. This is an almost unique instance of a hot, dry summer producing a small and inferior crop of wheat in this country. Barley has also had many vicissitudes to encounter, commencing early in the season, when the drought was already so great in some parts of the country that the seed would not germinate, and much of it lay in the land for two or three months and then came struggling up in a weak and untimely manner. Under these circumstances few good crops of barley could be expected, and good crops were few indeed, as regards yield at any rate, although the colour in many

cases was everything to be desired. The acreage of barley in the United Kingdom last year was 2,251,293 acres, as compared with 2,220,243 in 1892, a trifling increase of no great significance one way or the other. The estimated yield of last year's crop of barley was only 28·69 bushels, as against 34·61 bushels in 1892, a state of things not at all to be wondered at, considering the early difficulties of the plant. Of Oats the acreage in 1893 was 4,435,944 acres, as compared with 4,238,036 acres in 1892, showing an increase of nearly 200,000 acres, probably due, to some extent, to the planting of oats in many fields where wheat should have been. The estimated yield of oats per acre last year was 35·59 bushels, as against 38·80 bushels in 1892, so that the larger acreage was considerably more than neutralized by the falling off in the yield, the estimated total of the oat crop of 1893 being 4,000,000 bushels less than that of 1892. Of Rye the acreage last year was 69,525, as against 61,392 bushels in 1892, a slight increase; whilst in the case of Beans there was a decrease of nearly 70,000 acres, the acreage for 1893 being only 248,304, as compared with 315,413 acres in 1892. Season and prices have alike been unfavourable to the growth of beans lately, yet they certainly ought to be cultivated in heavy land districts to a much larger extent than at present. The acreage of Peas in 1893 was 210,900 acres, as against 195,010 acres in 1892, a difference too slight to be taken into any kind of account.

**Covered Yards.**—The question of covered yards for stock is one which at present requires to be looked at from two points of view. The first is whether in face of the bringing of all parts of the world together by cheap transit, it will pay to adopt "intensive" methods here in the production of meat which is to be sold in competition with other meat produced under the most primitive and least expensive conditions. Covered yards cost a lot of money, interest for which must be added to the other outlays in connection with the keeping of stock, and if the returns are as small as they promise to be, even this additional charge may help to turn the balance the wrong way. But for this consideration there can be no doubt that properly constructed covered yards offer many advantages, and in the erection of new homesteads it is an open question whether they do not even extend to cheapness, seeing the number of outside walls and roofing timber that may be dispensed with. Not the least of their recommendations is the facility they afford for conserving all the richest elements in farm-yard manure, so apt to be lost in ordinary yards, and in this direction alone, they may with careful management, easily be made to return much more than the interest on the cost of their erection.

**Coverts, Pheasant.**—In making artificial additions to the natural covert of woods in which pheasants are to be preserved, two or three things have to be taken into consideration. The first is that the shrub or plant, whatever it may be, shall be adapted to the particular soil, otherwise it will not flourish or even live, and all the trouble and expense attendant on planting it will be wasted. It may be necessary to apply to a hotanist or very experienced nurseryman for this information, and even then it may not be always reliable. The second point to be kept in view, is to plant something which, in addition to affording covert, will provide something in the way of food, such as seeds and berries. Of grasses the giant wood fescue, the hard fescue, the tall fescue and the Yorkshire fog grass make good covert, and amongst shrubs, rhododendrons make the best, whilst the *Berberis Aquifolia* (or Mahonia) not only makes good covert, but provides berries to which the birds are very partial.



**Cream, The Temperature of.**—The temperature at which cream should be made into butter is a point which all good butter-makers should carefully study. At present there appears to be a danger of knowing too much on the subject, instead of, as formerly, knowing too little or nothing at all. The old-fashioned dairy-maid put the cream into the churn without troubling herself in the least about its temperature, and in consequence had often to work hard for an hour when her labours might easily have been brought to an end in ten minutes. The new-fashioned dairy-maid, the show one, not only heats her cream, but invariably raises its temperature to too high a point in order to ensure its coming quickly. In dairies where the object is to produce butter of the very best quality, for home use, it is not at all desirable to follow the same tactics. Whatever dairy teachers may assert to the contrary it is a fact, which may easily be proved by trial, that the best butter is produced at a comparatively low temperature, say 56 degrees or even a point or two less, but of course the churning takes a longer time.

**Cricket.**—Like many other things the cricket season of the past year was considerably affected by the drought, the ground in some instances having been a little too hard for really satisfactory play. This drawback, however, had no effect on the number of matches played, nor on the enthusiasm of the veteran players, although some of the colts may have felt a little discouraged at times by the unwonted conditions under which they were called on to show what they were made of. One of the notable features of the season was the visit of an Australian team, which provided extra work for our Metropolitan and best County Clubs. Although this Colonial team did not by any means have things all their own way, they made a very respectable record considering the calibre of the players they were pitted against. Out of thirty-six matches they won eighteen, lost ten, and had eight draws. In the three test matches they played against the pick of the old country they were only fairly beaten once—though that was a somewhat hollow beat, accomplished by the Home team in a single innings—the other two matches resulting in draws. At Portsmouth, playing against Oxford and Cambridge, they made a record innings of 843 runs, and this may be set down as their most notable performance during their sojourn here. Of County cricket generally during the Season, 1893, it may be said that it did not recede either in interest or quality of play, although some of the victories came as surprises, not only to the defeated players but to the patrons of the game at large. Of the doings of individual cricketers, none were more remarkable than those of the—from a cricketing point of view—veteran W. G. Grace, Senior, who aggregated during the season, 1,609 runs. The highest individual innings was that of A. E. Stoddart, who made 195 runs; W. Bruce following closely at his heels with 191 runs in a single innings. Two players, Stoddart and Gunn, made an aggregate of over 2,000, and fourteen players altogether exceeded 1,000 runs during the season, which may be characterized on the whole as one of the most brilliant in the annals of the game.

**Cycling.**—The Cycle has been somewhat vain-gloriously styled the "horse of the future" by some of its more ardent patrons hailing from city quarters, but probably most of our readers will join in the hope that the day is far distant when the displacement of the living organism, the noble four-footed beast which carries its master safely through "thick and thin" will take place. The cycle, however, is not to be spoken or even thought lightly of by any one who wishes to be

considered "up-to-date" and it has its uses and attractions even to those who have choice of horses in the stable, whilst to an immense number of those who are not so fortunate it is everything in the way of locomotion. Great improvements have taken place in the past year, chiefly in the direction of pneumatic tyres among which there has been quite a "boom." A great deal has been done also in record breaking and making, but in cycling, records are no better than ninepins, merely set up to be knocked over, and to give one here would be to record a thing of the past by the time the ink is dry.

**Dairy Cow, The Perfect.**—Cows are a growth and not a manufacture, otherwise in these inventive days we should probably have had a perfect dairy cow turned out long before this. As it is, that animal remains a *desideratum* of the future with regard to which nothing is definitely established. The claims of the Jersey to the position are not to be so easily thrust aside as the advocates of some rival breeds seem to imagine. A dairy cow means a dairy cow, one that will give the largest quantity of the richest milk in proportion to its size, and where is there another equal to the Jersey in these vital particulars? Those who favour the Jersey may confidently ask this question, especially after the triumphant way in which it came out of the exhaustive trials at Chicago, eclipsing, both as a butter and cheese maker, not only the Shorthorn, but its own twin-sister the Guernsey. All that can be asserted against it is that it does not fatten well and therefore cannot be turned to much account when no longer useful in the dairy. But a tendency to put on fat is not a dairy qualification at all; practically speaking, indeed, it is a very dangerous tendency in a dairy cow at all times, for the fattening tendency may preponderate in a cow or heifer, specially purchased at a high price for dairy purposes, in which case the purpose will be defeated, and the extra money thrown away. This consideration puts the Shorthorn out of court as a claimant to the distinction of being called the perfect dairy cow, although it does not advance the claim of the Jersey. Ayrshires and Red Polls have both been put forward as claimants, and much can be said in favour of both, but not enough to establish the claim of either by a long way. If the capacity to make good beef is to be set down as a *sine quâ non* in the perfect dairy cow, combined with a faculty for giving the largest quantity of the richest milk according to size, it must actually be conceded that, up to date, the little Dexter-Kerry spoken of elsewhere, presents the nearest approach of any!

**Dead-Heats.**—Some of the complications occasionally resulting from dead-heats in flat racing were dealt with by the Jockey Club last year, with a view to simplifying matters. The chief alteration made was in rule 146, which now runs thus:—"A dead-heat for the first place shall be run off on the same day at a time to be appointed by the Stewards, unless the owners agree to divide. The other horses shall be deemed to have been beaten, but they shall be entitled to their places (if any), as if the race had been finally determined the first time. (ii) In running off a dead-heat the rules as to declaration of overweight, weighing out and weighing in, shall apply, but the same Jockeys need not ride. (iii) If in running a dead-heat off either horse should be disqualified, it should be decided by the Stewards whether the disqualification shall extend to the loss of the second place, and, if so, the horse that originally ran third shall be entitled to second place." This is as it should be, and in the coming season the effect of the alteration will no doubt be apparent, as there is seldom a meeting of any importance at which one or more dead-heats do not occur.

**Dexter-Kerries.**—If rural England is ever to be transformed into an Arcadia in which the proverbial "three acres and a cow" are to occupy a prominent position, the Dexter-Kerry will become a much more familiar object in rustic landscapes than it is at present, for it is essentially the one cow best adapted for the cottager, being small, tractable, easily satisfied on the point of food and giving an abundance of rich milk in proportion to its size. Singularly enough it is not the worst adapted cow for the opposite end of the social ladder, as the gentleman's park may perhaps in this connection be called. These little cows are very picturesque in appearance, a number of them roaming about together in a park make a very pretty sight, which, whilst pleasing the eye, suggests a replenishment of the pocket. Their dairy qualities, as pointed out above, are of no mean order, in addition to which they have another recommendation. Unlike Jerseys and other Channel Island cattle, they make excellent beef, fit, as far as eating is concerned, for any table, so that in a large establishment, one of them might occasionally be brought in to lessen the butcher's bill.

**Dogs, Deafness in.**—A much more frequent visitation than is usually supposed is deafness in dogs. Cropping is said to produce it in many cases, and very naturally, seeing that it interferes with that conformation of the ear which nature has provided as the best suited to secure perfect hearing in the animal. In some cases it is congenital and in a succession of crop-eared dogs, extending over a number of generations, is very likely to be so to a continually increasing extent. The frequent deafness of the fashionable pug is said to be almost solely attributable to the custom of rounding its ears. When there is a suspicion of deafness in a valuable young dog of any kind, it is best to consult a good veterinary surgeon at once, and not to attempt home treatment or allow anyone else to do so, however confident they may be of effecting a cure. If congenital the affliction is incurable, and if resulting from any other cause it is probably one which can only be dealt with by operation.

**Dogs' Ears, Canker in.**—Canker in dogs' ears is a form or symptom of eczema, and a very troublesome symptom, indicating an aggravated form of what in some cases may be a comparatively harmless complaint. It occurs more frequently with water dogs than any others, owing to the body being immersed often in cold water, which has a tendency to drive the blood to the head and ears, causing a distension of the vessels and a predisposition to inflammation. This is a special form of canker, which may be most effectually dealt with by carefully syringing with warm water and the application of any soothing lotion, which may be either poured gently into the ear, applied with a feather or be saturated in some cotton-wool and carefully packed in. Zinc lotion, five grains to the ounce of water is considered the best. To ensure rapid and complete recovery it is well to protect the ears by means of a wash-leather cap carefully tied on under the chin, as the irritation causes the animal to shake, scratch and rub its ears wherever possible.

**Dogs' Teeth, Scaling.**—Few people are apparently aware of how much dogs of all descriptions suffer from their teeth, especially as they get old. They are often affected with toothache, and no doubt some of the unaccountable howls they occasionally put up are due to this cause. Their mouths should be periodically examined as they grow old, and any palpably decayed teeth carefully removed. If bleeding follows, a little cotton-wool steeped in tincture of myrrh or solution

of alum and stuffed into the cavity will stop it. Dogs' teeth are also very liable to become encrusted with tartar to a very considerable extent as they get old, and this is the cause of a great deal of inconvenience and suffering. In all such cases the teeth should be properly "scaled" and afterwards brushed with soap and water and a little charcoal or a few drops of tincture of myrrh. Bones to gnaw are a preventative to the accumulation of deposit on the teeth.

**Dogs' Temperature.**—In all cases when a dog of any kind appears to be ailing, it is well to ascertain its temperature by the insertion of a chemical thermometer into the rectum or vagina. Any serious departure from the dog's normal heat must be in itself an indication of some kind of disorder, and if the animal be a valuable one should at once be followed up by sending for the veterinary surgeon. There is some little difference of opinion as to what is the exact normal temperature of the dog, some putting it as high as 100, whilst others place it as low as 96.5° or 97°. If we draw a line between these two extremes we shall not be far wrong, and that gives us a normal heat very closely approximating to that of the human body. The highest authorities put the actual figure at 98.6, and anything above that is certainly indicative of something wrong.

**Draining.**—The laying down of so much heavy poor land to permanent pasture should have given renewed activity to the system of artificial draining, for it is certain if the surface and rain-water generally are not drawn off the process of making the pasture will be greatly interfered with, and all the finer grasses destroyed, so that there will be little or no prospect of ever making a really good pasture of it. The extension of the system of artificial draining has been somewhat interfered with by a wide divergence of opinion, between so-called "scientific" and so-called "practical" men as to the depth of the drains, some advocating five or six feet, and some being for 3 feet or 30 inches, and even 20 inches only. Without presuming to settle this vexed question, it may be set down as beyond dispute, that deep drains will not properly drain a pasture if they are placed too far apart, and that even 20 inch drains *will* do so, if they are placed close enough together. The cost of a thorough system of under-drainage is the greatest objection to it, for there is not time for the land nearly to repay the outlay before it requires draining again.

**Egg-Preserving.**—Unless poultry-keeping is carried on much more extensively than usual there are seldom any eggs to preserve in a country mansion. They are used as fast as they are brought in from the poultry-house or the home farm. Where careful housewifery is practiced, however, it is well to have an ample supply of reliable eggs for winter use, and the best way to obtain such a supply where all the eggs of home production are used up from day to day, is to buy in a good stock from the adjoining farmers when eggs are plentiful with them and not readily marketable. Good English eggs are thus ensured, and to preserve them all that is necessary is to make a solution consisting of 1½ lbs. of unslacked lime and 1 lb. of salt, put into 4 gallons of water and boil for a quarter-of-an-hour, when the liquid should be strained and the eggs put into it cold.

**Elms, Propagating.**—The Elm is a tree which few, who are thinking of improving the value of their estates by planting, would ever adopt to any large extent. A plantation of Elms would be a rarity and a great mistake into the bargain. Elms should at the utmost be in groups, and every tree should have an outside aspect free to sun and wind. This of course

cannot be secured in a plantation or wood; hence those who are disposed to cultivate the Elm, the timber of which is always saleable and in good request, must do so in avenues, in clusters, by roadsides, or in hedges between fields where, by the way, it is not wanted for other reasons. A great deal of care is required to propagate the common Elm properly. It is not a native of this country and does not seed here. Propagation therefore must be carried out by means of suckers, which are obtained by felling a well-established tree, from the stool of which suckers will shortly appear, when these have attained a season's growth, they are laid over, and the base covered with five or six inches of fine mould, when they take root and may be separated the following season, and planted in nursery rows. The same stool will serve again and again for the purpose.

**Feet, Take care of the.**—The most vulnerable points in the body of a sportsman when on foot, fishing, or in pursuit of grouse, partridges or pheasants, especially the latter, are the lower extremities. "Take care of the feet and the rest of the body will take care of itself" may be regarded as a sportsman's axiom, which cannot be gainsaid. Boots made of the best material and of ample size are indispensable, for it has been proved by observations made in connection with marching troops, that the foot enlarges by at least one-eighth after two or three hours walking. Thick woollen socks make the best inner wear, as they help to fill the boot when the foot is its natural size, and admit of compression as it enlarges. Many things have been recommended for hardening the feet, but a little common salt in lukewarm water in a bath, keeping the feet gently moving in it for about ten minutes, will be found as effectual as anything. A little mustard put into this bath after a hard day's walking on damp ground and in moist weather, which naturally depresses the vitality to a dangerous extent and opens the way to all sorts of attacks, will have the effect of bringing about the desired reaction in a very short time, and putting renewed life into the whole system.

**Fences and Fencing.**—Fences, especially boundary fences, often give a great deal of trouble, cause a great deal of ill-feeling and frequently entail litigation. The law or laws relating to fences seem to want remodelling, if only to make them simple and intelligible. With regard to boundary fences, the legal aspect of the subject is too intricate to be entered on in detail here, but it is well to understand that in law there is absolutely no exception to the rule, that every man is bound to fence against his own cattle, and that if they stray away and get into mischief by eating improper things causing their death, there is no redress against the owner of the field in which they met with the mishap, although it may have been through his fence they wandered, and that he can even impound or claim damages for trespass in such a case if disposed to push things to extremity. In some places custom still seems to rule in this matter, but it is questionable if it could be maintained against the law.

**Ferrets.**—The distemper to which ferrets are subject, and which is very closely akin to that of the dog, is a very infectious disease, for which, up to the present time, no entirely satisfactory remedy has been discovered. This is scarcely to be wondered at, for the severity of the disease is no doubt largely due to the somewhat unnatural conditions under which ferrets are usually kept. This points to the conclusion that in order to mitigate this severity, if not entirely to prevent the disease, these conditions should be relaxed as far as possible. At any rate the utmost cleanliness should be observed, and sufficient room for exercise allowed, as

well as a free circulation of fresh air ensured night and day, and *too much* animal food avoided. Inoculation with distemper-virus has been suggested as a means of at least mitigating the severity of the attack in cases of epidemic, but whether it has been successfully put in practice or not, we are not at present in a position to say. The low fever to which ferrets are subject, and which is sometimes mistaken for distemper, results from much the same causes as those which predispose to distemper, viz., too much confinement, neglect of cleanliness, and want of fresh air and exercise. Some claim to have discovered a medicinal remedy for this complaint, in the shape of milk of sulphur, but it is not wise to rely on its efficacy to the neglect of other precautions.

**Fire, Precautions against.**—The dangers of fire in a large country establishment are great, and must always remain so for several reasons. In the first place, in the event of a fire breaking out, seldom, indeed, is there an adequate supply of water within reach to make the least appreciable impression upon it; and in the second place, in the rare event of a sufficiency of water, no force is at hand to apply it, and long before the lumbering engine or engines from the nearest town can be brought upon the scene and set to work, a fine mansion with all its valuable contents will be destroyed, although there may be a wide and deep stream of water running within a hundred yards of it. Dependence in such a case, therefore, must be largely self-dependence, on precautions taken within, for there is little hope of any adequate help from without. Where there is power to raise the water, a large tank or cistern may be placed at the top of the house and kept full, with a sufficient length of hose connected with it to admit of being brought to bear on any part, and if all these requirements are provided and *kept ready for use*, an intelligent and active man may be able to extinguish a fire in its first stage and so save a mansion. It is useless, however, to disguise the fact, that all such contrivances are apt to be neglected and allowed to get out of order, and in nine cases out of ten if a fire were to occur some part of the apparatus would certainly be in this condition. Due carefulness at all times, and a proper nightly survey of every part of the establishment by a competent and reliable person are the only precautions of much real value.

**Fish, Close Times for.**—The close time for Salmon varies according to locality, being fixed for England and Wales, including the Esk in Dumfries, for nets from the 1st of September to the 1st of February, and for rods from the 2nd of November to the 1st of February. This close time may be varied somewhat by a bye-law of local Boards of Conservators, but it must never be less than 154 days for nets, or 92 days for rod and line. Bye-laws exist affecting a number of rivers to some small extent, but space will not admit of our naming them all, nor does the importance of the alterations require it. In Scotland the close time for salmon begins for nets on the 27th of August and ends on the 10th of February, and for rods, begins on the 1st November and ends the 10th of February. In some rivers the close time for nets does not begin until the early part of September. In Ireland the close time is the same both for salmon and trout, and although there are many variations of it, they mainly commence in August and September for nets, and end on the 10th February, though some few are continued to March and even April; for rods, the general time is from October to February, March or April. Trout and Chub have a close time in England and Wales extending from 2nd of October to 1st of February. In Scotland there is no close time for these fish.

**Food—Effect of on Breeding.**—This interesting subject was exhaustively dealt with during the past year by Professor Roberts in a paper read before the Massachusetts Board of Agriculture, principally in relation to dairy stock: in support of his contention that the food of the parents greatly helps to determine the character of the offspring, he quoted Darwin, who says, "of all the factors which produce variations in animals, food is the most potent." The practical application of this fact to breeding, whether of dairy cattle or any other description of live stock, is that whatever the tendency of the food of the parents at the time of conception and generally before and after, that tendency will be developed in the offspring. For instance, if the parents of a calf have been fed on highly nitrogenous substances, culminated to make meat, that calf will be much more inclined to put on flesh than to make milk. We see this practically exemplified in high-class Shorthorns, and if the investigation is carefully followed up, we shall find the same rule prevailing in all other directions. To obtain good dairy cows we must breed from animals living chiefly on grass not too liberally supplemented by cake, the more cake the more chance of failure in the offspring.

**Forestry.**—Although it would be going too far to number forestry among the lost arts of this country, it may be emphatically asserted that it is an art which has been much neglected of late years on a great many estates. The use of iron and steel as materials for shipbuilding, and the large importations of foreign timber have no doubt contributed to this by creating an impression in the minds of landowners that it would be of little use to go to the expense of growing timber in a systematic way with so poor a prospect of finding a remunerative market for it. Within the past two or three years, however, this impression has been gradually fading away, and in Scotland in particular, renewed attention has been given to the growth of timber and underwood. The example thus set is one it seems advisable for several reasons to follow. Iron and steel can never supersede wood in some directions, and are never likely to in others; and although it cannot be said that prices for timber and underwood are at present on the "up" grade, neither, on the other hand, can it be denied that there is a market of some kind for both. This market or demand is not likely to decline further. It may expand very considerably, for it is quite possible that if the present prices for coal become permanent there may be a renewed demand for wood for domestic heating purposes. There are many who have a latent liking for a wood fire, and another turn or two of the screw by the coal merchants might have the effect of developing this latent preference into an active demand. Quite apart from this "possibility" of the future there are positive and substantial grounds for assuming that the market for English timber and underwood is not in the least degree likely to be less active than at present; hence land planted with such growths is certain to make a return at some time, which is more than can be said of a great deal of agricultural land, the prospect of a return from which in the future is very problematical and uncertain indeed. A great deal of land which will scarcely pay the actual expenses of cultivation, leaving out all question of rent, is excellently adapted for the growth of larch, fir, and other coniferous trees, which, being of rapid growth, soon come into value; and it is much better for a landowner to have a direct return of this kind, although it may be a small one, than to be saddled with the risk, trouble and unpleasantness attend on letting such land to a tenant who can only be impoverished by it. Under existing circumstances,

indeed, it is a matter worthy of the most serious consideration of every landowner whether it will not pay him to turn all the inferior portions of his estate to direct account in this way. There is scarcely an acre of them but under skilful and experienced management may be turned to profitable use in the growth of timber or underwood. Corn growing even on the best land cannot be pursued with much advantage in this country at present, and stock-keeping on arable without corn is a very one-sided business. Forestry, therefore, in all its branches, has once more become a subject of practical importance to every landowner and agent, calling for increased study and attention as a means of helping to maintain estate revenues, which from an agricultural point of view, threaten to become smaller and more precarious every day.

**Fruit-Growing for Profit.**—With all the world, even to its remotest extremities, threatening to pour in fruit upon us, it is a matter for serious consideration whether, in spite of the immense market at our doors, it would be safe to go into fruit-growing for profit on a very large scale. It must, however, to a great extent be simply a matter for calculation. We are subject to the same competition in connection with almost every other description of agricultural produce, and if land can be more profitably utilised by growing fruit than by growing corn, fattening cattle, or feeding dairy cows, there is no reason why it should not be so. Fruit culture, from the conditions attached to it, seems rather to pertain to estate ownership than the farming of hired land. The trees are of slow growth, and years must elapse before they come into full profit, until when, the return from the land must be very small or absolutely *nil*, a state of things which must deter a farmer having rent, rates, and tithes to pay from year to year, from devoting much land to the purpose, unless assured of a full recoupment on leaving the place, and even in that case farmers cannot afford to wait for a return in this way. As a branch of estate management, however, fruit-growing may be worth consideration; the technical knowledge necessary to the cultivation, management and training of fruit-trees is at hand, and the more of this brought to bear in the production of fruit the better the market it will command. Where, therefore, profit is a matter to be aimed at in connection with that portion of an estate kept in hand, fruit-growing may very well be resorted to, and the larger the scale and the more of a business it is made the more profitable it is likely to prove.

**Furze as Forage.**—The use of furze as forage was no doubt suggested in the first place by observing the avidity with which cows and other cattle devour the young shoots when turned out on commons and other places where it grows naturally. Experiment has proved it to be an excellent winter food both for cattle and horses, when cut sufficiently young and subjected to an artificial process of mastication by being passed through a gorse-crusher, specially manufactured for the purpose. The process of collecting the young shoots from furze-bushes was found, however, a very troublesome one, as few could be trusted to do the work with sufficient care, and many tough, hard, woody stumps were always to be found in the heap, calculated to do animals more harm than good if eaten even in a masticated state. Furze was, therefore, grown artificially in some few cases and found to answer well, but the greater use of roots seems to have stood in the way of its extended growth and use. When thus grown, the seed should be drilled in April in rows about the same distance apart as roots, the plants should be kept

well hoed, and a little dung spread between the rows, and then the second winter after planting and every alternate winter afterwards it will afford a good cut of green succulent food.

**Game, Close Times for.**—The close time for Grouse and Game in England is from the 11th of December to the 11th of August, and the same in Scotland and Ireland; for Black Game or heath fowl from 11th December to 19th of August in all three countries; for Partridges from the 2nd of February to the 31st of August, in England, Scotland, and Ireland; Pheasants from 2nd February to 30th September in all three countries; Quail is protected in Ireland from the 11th of January to the 19th September, so also are Bustards. Correctly speaking there is no close time for Hares in England or Scotland, but their sale is prohibited from March to July under a penalty of £1. In Ireland there is a regular close time for Hares, from 21st April to 11th August. The close time for Deer in Ireland is from 6th of January to 6th of June; in England and Scotland there is no close time for Deer, male or fallow. The Fox Hunting season opens by prescription on the 1st November and continues till the following April. Otter Hunting lasts from mid-April to mid-September.

**Golfing.**—If things go on as they are going at present no country establishment will any longer be complete without its Golf Ground, and those who would keep abreast of the times will do well to begin laying it out as soon as possible, as otherwise, before the ground is got into thoroughly good order for the game, the fashion may have passed away. That it is in no danger of doing so just at present may be judged from the number of Golf Clubs springing up everywhere. It is asserted, on what should be good authority, that there are no fewer than 500 Golf Clubs of one sort and another in England alone, but this seems almost incredible, or, if there is any approach to truth in it, some of these clubs must be very hole-in-corner affairs indeed. They may grow into importance, however, and therefore it will not do to speak disrespectfully of any of them. The amateur championship for 1893 was contested for at Prestwich on May 9th, when the English holder, Mr. J. Ball, Junr., broke down somewhat badly, and the final was won by Mr. P. C. Anderson, of St. Andrews, by a hole. The open Championship was also taken by a St. Andrews' man, Mr. W. Auchterlonie.

**Gun Room, The.**—To a boy of fifteen, home from school, there is no place possessing such fascination as the gun room. His mind may often turn towards the larder when he comes in from a spell of out door exercise, and, indeed, at many other times, for there is not much limit to the appetite of a healthy boy, but his heart is in the gun room, although it is a sort of fearful joy not certainly without its dangers. These, perhaps, constitute its charm, and afford a good reason for his not being able in many cases to obtain unrestricted access to it. Gun rooms differ, of course, very materially in different houses, according to the tastes of the owner and the length of time they have been occupied for the purpose. Some are mere closets with a few guns and perhaps an old broken fishing rod stowed away in them; others are veritable museums, full of suggestive history both of the house and family and the idiosyncrasies of various members of it, and also of the progress in the art of gunnery and gun making. Perhaps it might be difficult to find a cross-bow in any of them, although, even on this point it would not do to speak with too much confidence, but of guns and firelocks, even of the most ancient

description, there would be found enough and to spare, that is, according to the use of them; but they suggest much, and show the gradual development of the fowling-piece, from the old flint-lock down to the latest hammerless breechloader. The distance between these two implements of destruction seems immense, yet it is a somewhat humiliating truth that there is a curious bridge over it; that there were men who would do more execution with one of the most primitive looking and antiquated of these flint-locks in a similar set of circumstances, than could be done by some of us with the pick of the newest breechloaders with all their latest improvements at command. But times change, and guns change, and none of us would wish to go back to the old weapon. There are great differences, too, in the appearance of gun rooms resulting from the differing habits of their owners. Some are models of order, where every gun has its rack and every appurtenance and appliance its proper place, where it can always be found when wanted. Some gun rooms, on the other hand, are scenes of wild confusion, where everything must be carefully looked for, and then cannot always be found when wanted. Some, again, are workshops, fitted with lathes and vices, where the owner can indulge his mechanical tastes, which in some cases extend far beyond the mere keeping of guns and other things in good order and repair. Taken altogether, a well-ordered and well-stocked gun room is not the least interesting nor the least important feature in a country establishment, but so much depends on the tastes and turn of mind of the owner that no general recommendation of any value can be made with regard to it here, except that, as a rule, the door should be kept locked and the key kept in the master's pocket when at home.

**Home Farm, The.**—To enter into any elaborate details as to the cultivation and management of a home farm would be superfluous here, and might, indeed, be resented as a piece of quite uncalled for information coming too late in the day to be of any practical use in most cases. There is, however, one point of interest which may very profitably and pertinently be raised in connection with home farms, and that is, as to whether they should not have a more extended purpose than the mere supply of provender to the stables, and eggs, poultry, pork and dairy produce, to the house. In plain words ought they not, when on a sufficiently large scale, and permanently occupied for the purpose, to be used as a sort of experimental station and agricultural training ground for the estate generally? There are some directions, at any rate, in which they may be turned to account in this way, and one is in making experiments in new crops, implements and appliances, and showing their value to the tenants by ocular demonstration. This more especially applies where the soil of the home farm corresponds with that of the greater part of the estate; since the cause of failure with regard to a great many experiments lies in the fact of their having been tried in wrong places and unsuitable conditions. An experiment most successfully conducted in one part of the country may be a complete failure in another, and it is experiences of this kind which deter many tenant farmers from adopting new methods and crops. If tried on the home farm first and their value or worthlessness proved a distinct advance would be made, and in the event of a successful issue the way paved for the introduction of many improvements which could not fail to contribute to the ultimate advantage of the estate and its owner. Probably this suggestion is already being acted on in some cases, but there are reasons and prejudices standing in the way of this being generally the case,

which should be overcome. In every case the home farm should be a model of good cultivation, perfect cleanliness, and advanced practice generally.

**Horses.**—There were no signs during the past year of anything like an improvement in the prices or demand for heavy draught horses for farm and town work. The depression in agriculture has inclined farmers rather to sell than to buy when they had anything promising that could be spared, and the prevailing dulness of trade has stood in the way of any extensive purchases being made for other purposes. Shires, in some few cases sold fairly well, especially in the earlier part of the year. At Sir Walter Gilbey's sale at Elsenham Hall, in February, one of the two-year-old fillies made 355 guineas and one of the four-year-old mares 330 guineas, which may be ranked amongst the best prices of the year. The fact of such prices being made at all for heavy mares and fillies is a strong indication that fashion is exercising considerable influence in connection with the breed to which they belong, but there is no reason to believe that Shires will become more in request than they have been during the past few years. Clydesdales are not by any means receding in public favour and, taking the past year generally, they may be said to have held their own quite as well as the rival English breed, although no such average as that at Sir Walter Gilbey's was made at any public sale. Suffolk Punches have been little heard of publicly during the past year; this being a breed which, although exceedingly useful for a great variety of purposes, has not yet become fashionable. According to the Agricultural Returns the number of horses used solely for Agriculture amounted to 789,717 in 1893, of unbroken horses to 328,877, and of mares kept solely for breeding, 50,215. The movement in favour of encouraging English farmers to breed more Hackneys, largely promoted by Mr. Burdett-Coutts, does not appear to be taking root very rapidly; at any rate it received no special stimulus during the past year, nor is there anything of interest or importance to record about it beyond the holding of the usual Spring Show at the Agricultural Hall, Islington. Prices for Hackneys have not been very high during the year, the demand either for home use or foreign breeding purposes not having been very lively. The demand for Hunters has not been very excessive either, nor have prices been marked by any particular animation. Good animals have in some cases, no doubt, changed hands at handsome figures, but for various reasons it cannot be said that hunters have been in request during the past season even to the ordinary extent. The Royal Commission on Horse Breeding has continued to carry on its useful work under some important modifications, involving a partial redistribution of districts, a noticeable feature in which is the sparsity of thorough-bred stallions allotted to the Eastern Counties, of which some little complaint has naturally been made.

**House Drainage.**—It would be inexcusable to commence building a new Country Mansion without a thorough previous consideration of the question of drainage in all its ramifications, which are numerous, extending in various directions. Such mansions are seldom erected now, as they too frequently were in former days, in low-lying spots where drainage is difficult, and as an elevated position is in every way conducive to a simple, inexpensive and at the same time perfect system of drainage, it may be taken for granted that all necessary precautions have been adopted, although in purchasing such a place after erection and possible occupation by someone else, it is

always desirable to have the fact determined beyond dispute. With regard to a great number of old houses, however, it may be safely asserted that their drainage to this day is in a very crude if not unsanitary state. Where the subsoil is a porous one, it frequently happens that dead wells lie unopened for so long a time that their very existence is almost forgotten, and their actual whereabouts quite so. It is just in such cases as these that the worst and most dangerous consequences are likely to ensue; the porous soil which admits of the free escape of liquid from the dead well allows of its passage towards and final dripping into a live well, from which water may be drawn for domestic uses. Where such water is boiled or merely used indirectly in preparing things which have to be cooked, this may go on for years without anything very serious happening, but there is always a lurking danger, and almost at any moment fatal results may follow. In no case should such a state of things be allowed to continue where it is actually known to exist, even when nothing serious has hitherto happened; but there are many instances in which it is not actually known for certain that it does exist, and in such cases it is somewhat difficult to know what to do. If, however, the general health of the inmates is not what it should be, if there is a tendency to low fever, diphtheria, general depression, lassitude, and want of "tone," it may almost be taken for granted that some unknown defect in the drainage is the cause of it, and that very probably one of these dangerous dead wells is in existence somewhere about the place. In such a case there is no adequate alternative to making a thorough overhaul of the environments of the house in every direction, until the dead well or other defect is discovered. Then the only course to adopt is to put down a thorough system of drainage, carrying everything from the house in water-tight pipes into a water-tight tank or reservoir, from whence it must be got rid of by putting it on land, either directly or after some process of precipitation has been adopted, which will throw all the solid matter to the bottom of the tank, where, before removal, it should be further solidified, and deodorized by being mixed with dry earth, when it will make useful manure. In a porous soil nothing short of this will ensure perfect safety to health. Where the house stands in a low position it may be difficult to secure a sufficient run for the drainage, without sinking the tank or reservoir to a considerable depth underground, which will necessitate pumping up the liquid drainage, but even this is better than living under conditions which may at any moment be fatal to life. The tank or reservoir should be in duplicate to admit of cleansing without inconvenience.

**Hunt Finances.**—That a Mastership of Hounds is no sinecure must be apparent to all who have the least practical acquaintance with hunting and the hunting field. The duties, cares, and responsibilities of the position are almost as great and multifarious as those of a General of Division. It certainly is not desirable in any case that they should be added to and complicated by anxieties and worries about money matters connected with the hunt. Hence it would be well that it should be made a rule in all cases that Hunt Subscriptions should be paid in advance, so that the trouble and unpleasantness of being short of cash and of having to make applications to members should be avoided. It is also desirable that some better and more satisfactory method than "capping" should be devised if possible for levying contributions on non-members who are in a position to pay for their sport and who ought not to think of following hounds without contributing to the expenses of the hunt.



**Hunters, The Care and Food of.**—Hunters, to be relied on for a hard day's work, require a great deal of care, and not a little depends on their food, not so much on that they have received on the previous night as on their general dietary for some weeks before being required for hard work. Good hay and oats are generally relied on, and perhaps they cannot be beaten, assuming both are really good; but on this point a great deal of care and some little personal attention are absolutely necessary. Dusty hay has been the ruin of many a good hunter, and grooms cannot always be trusted to see that it is as free from dust as it should be. They would not give a horse mildewed hay nor a very dusty sample, but they are apt not to be particular enough, and there are obstacles in the way of their being so, both with regard to hay and oats. Where much dependence has to be placed on one or two horses, therefore, it is well for the owner to keep a watchful eye on them himself, and closely examine their fodder almost from day to day, for in no other way can its quality be ensured.

**Hunting Field, Second Horses in the.**—An occasional growl is heard from farmers when they see a large number of second horses scampering about their fields in all directions, cutting, or affecting to cut corners and other capers, sometimes being sent out as much for the purpose of trying the metal of a new horse as anything else. That those officially connected with the hunt should have a second horse in reserve goes without saying, that is, if they are to ensure being able to maintain their position throughout an exceptionally long day, finishing up with a sharp and exciting run. That all genuine sportsmen would like to be in the same position may also be taken for granted, but perhaps it would be as well in such cases to give instructions to the rider of the reserve horse to keep in the road as far as possible and not do any unnecessary treading over soft ground.

**Ice, Storing.**—The facilities for obtaining ice by purchase are so much greater than they formerly were that there is not the same necessity for storing away a large quantity there used to be. Many ice-houses have fallen into ruin in consequence, which is rather to be regretted as there is nothing more conducive to comfort in a large establishment in hot weather than an abundant supply of ice. Ice may be characterized as the "oil" of hot weather, which, when freely used, makes everything run more smoothly and soothes some of the irritation caused by the heat. Where ice of the right description is obtainable at home, therefore, it is well to store away a good lot of it, and it is not at all necessary to restore an old subterranean ice-house which has gone to decay or to build a new one of the same costly description in order to be able to do so. Ice may be stored above ground in such a way as to preserve it through much greater heat than we usually get here. All that is required for the purpose is a wooden shed put up in a shady place on a fairly dry soil. This shed should be lined with match-board (tongued) within, and may be weather-boarded without, the space between, which should be not less than six or eight inches, being filled with dry saw-dust. The floor must be of wood and set at a slight incline so as to secure a run and some holes should be bored at the lower end. The roof should also be made double and packed with saw-dust in the same way as the walls and it should carry a ventilator, as thorough ventilation is necessary in an ice-house of this kind.

**Indian Corn.**—The vast importations of maize or Indian corn which have been made into this country

during the past quarter of a century, and continue unabated, naturally tend to foster the impression that it is a grain of great feeding value. Its great natural weight of 60 lbs. to the bushel, or thereabout, seems to confirm this impression, and there is, of course, some degree of truth in it. On the other hand, there is equally little doubt that its merits have been considerably exaggerated, for it is deficient in some of the elements which go to make a perfect feeding material for any kind of stock. For working horses, especially, it is a quite inferior, and indeed, somewhat unsuitable food, being very heating in its effect, and also very deficient in flesh and muscle forming properties, and not at all distinguished by a preponderance of the phosphoric elements necessary to make, repair, or maintain bone, yet the Metropolitan Tram and Bus Companies are said to use it very largely for their horses; why they should continue to do so, now that English horse beans, which are far more suitable for horses in every respect, are to be bought at so low a price, is literally a puzzle, and not a suggestive fact from which a valuable practical inference of any kind is to be drawn. These companies have not gone scientifically into the question of horse feed, and selected maize as the best, but have simply been led away by its weight and apparent cheapness. It is to be regretted that this should be the case, since maize is displacing our own superior horse beans, the acreage of which is actually diminishing, although they belong to that family of leguminous plants possessing the valuable property of attracting nitrogen from the air and soil, and so enriching the latter at a cheap rate. Maize, although a useful, cannot be said to be a perfect food, even for pigs and poultry, as, although it is fattening, it certainly produces an inferior quality of meat, having a somewhat coarse and fishy flavour, peculiarly objectionable in poultry. The advantage of being able to buy cheap maize, therefore, which is sometimes held up to our farmers as a compensation for the low price of their own grain, is a somewhat questionable one.

**Insect Stings and Bites.**—One of the distinguishing characteristics of last year of a disagreeable order was the alarming prevalence of wasps, the nests of which were destroyed by the score on many estates of very moderate dimensions. The wasps seemed to affect lawns, shrubberies and gardens particularly, and obtruded themselves everywhere even amongst cooked fruit and vegetables. Many people under these circumstances suffered from stings, and in some cases the results were fatal, probably where the blood was in a bad or heated condition from other causes. One of the best remedies for insect stings and bites of all descriptions is Eau-de-Cologne, which will give immediate and lasting relief unless the sting remains in the wound, in which case it must, of course, be extracted before the effects of the nuisance can be entirely got rid of. A linseed poultice is good for the extraction of insect stings.

**Inspection of Animals intended for Slaughter.**—A movement, promoted by the veterinary profession, is on foot, for ensuring the compulsory inspection and examination of all animals intended for the consumption of man, before slaughter, so that nothing deleterious to health should be suffered to find its way to our tables. It is to be feared that very much coming under this latter category is imposed upon the British consumer at present, both in the shape of meat and almost every other kind of food, and nothing admissible can be said against the proposed measure, if properly carried out. It may, however, be

a very serious thing for the stock-owners of this country, if, as has been confidently asserted, at least twenty-five per cent. of our cattle are suffering from lung disease of one kind and another, especially tuberculosis. The veterinary inspectors appointed to the office will have to temper zeal with discretion, or many innocent foders will be called on to bear very heavy losses.

**Lampas in Horses.**—The troublesome affection of the mouth, known as lampas, which prevents young horses from properly masticating their food, and, therefore, if long continued, injuriously affects their condition and retards their growth and development, is not a thing to be alarmed at if taken in hand in good time and properly treated. The swollen bars of the palate require pricking, or slashing gently and delicately with a knife. This operation *may* be performed by a careful groom, but perhaps it is safest to have it done by a vet. There is generally considerable inflammation, in fact, the affection may properly be described as inflammation of the gums connected with dentition, and a little cooling medicine should be given, in addition to the scarifying of the swollen and bulging bars of the palate, and all will soon pass away.

**Larch.**—Among cone-bearing timber there is nothing more generally profitable and useful for planting than the larch. Hardy even among the hardest, it will thrive anywhere except in stagnant water, which quickly destroys its clustering roots and brings on speedy decay. If planted in clay soils, therefore, care must be taken to thoroughly under-drain the land in the first place, otherwise only disappointment and fruitless outlay will result. One of its great recommendations is that it makes some sort of a return at an early stage in its career, or is capable of doing so. Large plantations may be thinned at ten years' growth, when the young larch make excellent hop poles, which will generally command a good price. The thinning process may be gone over again after another ten years, when of course the poles have become much more valuable for other purposes. Finally, when matured, there is no sort of rough timber which can be put to so many uses, or will find a more ready sale at a price.

**Law of Trespass.**—The law of trespass as it stands at present is a very simple one, not at all erring, as so many of our other laws err, on the side of complexity. It does not, therefore, call for any lengthened explanation here, nor has any recent case arisen under it from which any new light may be gathered. What has arisen, however, is a very serious question as to whether it does not require amendment in the direction of being made more comprehensive. All lands in the vicinity of large centres of population are in danger of being overrun by depredators and trespassers of one kind and another who break down fences, trample crops and grass, and do an infinite amount of indefinite damage with perfect impunity. They are ostensibly in search of mushrooms, and these being a natural product, no property in them exists, consequently no one can claim damage for their removal, nor, although those who gather them trample and otherwise injure a great deal of grass, can this grass very well be produced against them in a court as evidence of actual damage. What has been proposed therefore by one or two Special Property Protection Societies and a number of County Councils and Chambers of Agriculture is that an Act of Parliament should be passed making it a penal offence to trespass in search of mushrooms and other things of the kind. Such an Act is much required, if only in the interests of farmers, whose fences and crops are injured by the trespassers, but it is useless to

conceal the fact that it is one which would encounter formidable opposition in the House of Commons from various motives.

**Lawn Shavings, Utilizing.**—A scarcity of feed such as we had last year sets people thinking in various directions and causes them to give increased attention to articles of fodder, which have hitherto been neglected. Amongst these the cuttings from lawns, cricket and tennis grounds, &c., have come in for a share of notice and inquiries have appeared in the newspapers as to the best way of utilizing them as food for cattle. The simplest of these is, of course, to feed them to cows, sheep or horses, as they are cut, the short fine grasses of which lawn turf is or should be composed, making an excellent diet in this shape. But in view of the impending scarcity of winter fodder, it was asked whether they could not be stored in some way for winter use, and it was suggested that they might be converted into capital silage by being mixed with a proportionate quantity of cut straw. Another means of preserving them was not merely suggested but tried and found to answer admirably, and that was converting them into hay by artificial heat applied by means of a special adaptation of Mr. Gibbs's Hay-drier, consisting of a cylinder or drum of about 4 ft. in diameter, into which the lawn shavings were put green at one end and came out capital hay with a fine aroma at the other. The mechanical success was complete, but whether the process would be too costly or not, has not been determined.

**Licences, Salmon.**—In the Salmon Fishery Districts of England and Wales and also in Ireland, it is necessary to take out a licence, or a series of licences, in order to fish, either with net or rod. These licences are available only for the season, and for the district in which they are issued, so that if a salmon fisher grows tired of a particular district or gets no "luck" there and wishes to change the scene of operation he is under the necessity of taking out a further licence. The licence for a rod in Ireland is £1, and that covers the whole country; the rod licences for different fisheries in England and Wales range from 21s. to 5s. The greatest number, including all the best ground, such as the Ribble, Avon, Exe, &c., are 20s., that is, for each river. The licences for nets range from £21 downwards in England and Wales; but in Ireland they run both higher and lower, going up to £30 in some districts and down to £3 for draft nets, the kind generally used. In some of the districts in England and Wales licences may be taken out for a short period at lower rates. In Scotland no licence is necessary for any kind of Salmon fishing.

**Lighting and Heating.**—The days of wax candles and wood fires, both very good things in their way, may be said to have gone by for the present, and left behind them a legacy of doubt and perplexity as to what are the best things to adopt in their place. With regard to heating, the open stove or grate system still obtains, and long may it continue to do so, for were it to disappear one of the most distinctive and characteristic aspects of English domestic life would disappear with it. But this only applies to living rooms, and there are many other parts of a large house which require heating, if only to keep them dry and healthy, and to burn up the superfluous moisture in the air. Of the various methods of heating in use, all have something to recommend them, and some drawbacks, no doubt, and choice must be determined more by questions of general convenience than anything else. Gas, for instance, may easily be made to do all the heating of the kind referred to, and of every kind for that matter, required



in the largest house, and where it is in use for lighting there is no need to resort to any other system for heating purposes. The same service of small pipes will do for both, and lights distributed at convenient distances along corridors and passages will heat them and dry up the moisture quite sufficiently, while as to the heating of rooms a small apparatus placed in the open register, with a little asbestos placed above it, will not only warm but give a cheerful aspect to the room. Those who have already adopted gas, therefore, will do well to think twice before seeking any improvement upon it for lighting purposes, which are of no service for heating. Where there is an engine or boiler about the place, used for generating steam for other purposes, the waste steam may be utilized for heating with great effect as well as economy, although the service of pipes necessary for its conveyance throughout the house involves a considerable preliminary outlay. This is not, however, so serious a consideration as after cost, for the latter is continually going on, and from this point of view steam may be preferable to gas, as the cost of generating it specially for the purpose, even, would scarcely be equal to the cost of the gas required to warm a large establishment. Hot air is another system of warming which has its advantages, but as it involves a series of large pipes and a furnace available for no other purpose, it is more adapted for public buildings than private establishments. With regard to the future lighting of country mansions, with the electric light figuring so prominently everywhere else, it may be taken for granted that it will be largely sought after for this purpose also.

**Live Weighing.**—No very remarkable impetus seems to have been given last year to the system of buying and selling cattle, fat or lean, by live weight. Matters cannot be said to have stood still, for the educational process has been pushed on very energetically, as evidenced by the number of block tests and guessing competitions that have taken place throughout the country. These "object lessons," however, have not had the desired effect of inducing those who witnessed or took part in them to come to the determination forthwith to sell their own stock by live weight and by live weight only, at least, not to any large extent, although there seems every inducement for them to do so both from a business and scientific point of view. The active and never-resting opposition of dealers and butchers to the system has no doubt had something to do with this, and farmers have not been able to insist so strongly as they might otherwise have done, on account of the generally weak and falling state of the markets during the year. Despite all unfavourable appearances, however, it may be safely assumed that the system is moving, however slowly, towards general adoption, and that in the course of a few more years we shall see the weighing machine in general use, both for fat and store stock. The great apostle of the movement, Mr. McJannet, is going too steadily and persistently to work to be defeated by mere inertia or an interested opposition which, when its character and objects are considered, should be his most active assistant in making converts of those who are too often the victims of the superior skill and judgment of these gentlemen of the cloth.

**Mange.**—This dangerous and loathsome skin affection of the horse is asserted by some to be practically incurable, and there are certainly colourable grounds for the assumption, as, if apparently cured or driven away, it is almost certain to break out again. The following is said, on competent authority, to make as good a dressing as can be applied:—Sublimed sulphur, 4 oz., powdered white hellebore, 1 oz., oil of turpentine,

2 oz., oil of tar (oleum picis liq.), 2 oz., olive oil, 1½ pints, applied three times in succession, washing off every two days, and repeating the dressing; harness and walls washed with soft soap, walls lime-washed. Before applying the above dressing, however, it will be well to ascertain for a certainty that the affection is really mange, as, if it should be some other skin complaint, it may be only aggravated instead of being cured by such an application. Outward applications of any kind, complicated or simple, can only be of secondary value in such cases, as they do not remove the cause.

**Mangel-Wurzel.**—There was an actual falling off in the acreage of Mangel grown in the United Kingdom last year according to the Agricultural Returns. This is possibly to be accounted for by the drought and the consequent failure of a great deal of the seed put into the ground to germinate, so that many fields which should have been mangel, and would have been in ordinary seasons, had to be returned as bare-fallow. This is an unfortunate circumstance, so far as the requirements of the present are concerned, but it would have been more unfortunate still had there been an indication of a falling off in favour of this valuable root, by far the most valuable of any grown for purely agricultural purposes. The stock farmer, whose soil and climate are suited to its growth, who does not grow mangel, is distinctly behind the times, and little likely to make progress, or even hold his own in such critical circumstances as prevail at present, calling for the exercise of the utmost skill and intelligence in the successful management of land and stock.

**Mares, Breeding Age of.**—The time of life up to which mares will breed is a point which must largely be determined by experience in every particular case, as some mares are better able to breed at twelve or even twenty than others are at six. Upon one point, however, it is well not to make a mistake; an old mare can seldom, if ever, be relied on to produce a really good colt. There may be apparent exceptions to this rule, but if the career of the colt bred from an old, that is a very old, mare be carefully watched to the finish, it will be found that it breaks down sooner or later, sometimes with surprising suddenness, and in a quite unaccountable way. This is in consequence of a latent want of stamina, for the rule holds good, in connection with animals at any rate, that no progenitor whose own functions and general powers are impaired, either by age or disease, can produce perfectly sound and healthy offspring. It is best not to breed from old mares.

**Mares' Tusks.**—Superstitions die very hard amongst men having the care of horses, who, although, as a rule, a somewhat "knowing" class, are not very receptive of new ideas, probably because they think that what they know cannot be improved on. It is still a belief with many of them that a mare with a tusk will not breed, but that, of course, is an entire mistake. The presence of a tusk in a mare's mouth, a very rare occurrence, by the way, does not interfere with her actual capacity for breeding, in the least. It denotes a degree of masculinity which may not make her a good breeder, and it would perhaps be advisable to abstain from breeding from such a mare, as it would be from any other animal having anything abnormal about it which might be transmitted to the offspring.

**Mole Plough, The.**—The demand for some cheap, and at the same time effective means of under-draining heavy clay pasture and arable land has given rise to many inquiries concerning the old

**Mole Plough,** its effectiveness and the most modern method of applying the principle. There can be no doubt as to its temporary effectiveness, when properly used, and due care taken to secure a run and a proper level throughout the bottom of the drain, so that there shall be no dips or hollows in which the water may hang back. With regard to the most modern appliance of the kind some might claim that designation for Fowler's Steam Drain Plough or Cutter, but there is another much simpler adaptation in the field, consisting of a windlass worked by a horse on the headland, drawing the mole by means of a chain. It does the work very effectively and at the same time cheaply, as several acres may be done in a day with one horse, a man and a boy. A drawing of this implement may be found in the 4th Edition of the "British Encyclopedia." Several have recently been constructed by local engineers, and found to work well.

**Moles.**—It is not desirable to take the bread out of any honest man's mouth, yet it is questionable whether the professional mole-catcher is quite that useful member of society he no doubt considers himself, and others must consider him, as, otherwise, they would not retain his services. Although it has not hitherto appeared in that light to many, the mole is probably more useful to the farmer than the mole-catcher. His appetite is said to be enormous, and for destroying insects, grubs and larvæ the hedge-hog is far behind him. Even his worst habit, that of throwing up unsightly little heaps of mould on pastures and meadows is not altogether injurious to the land, especially if it happens to be heavy. The tunnels he makes in his subterranean progresses serve as drains to some extent, and the mould thrown up, if carefully scattered with a spade, helps to enrich the surface soil, whilst the unsightliness is removed by the same simple process of scattering. Taking all these things into consideration, perhaps it may be as well to let the mole go his unobtrusive way.

**Nitrogen, The Fixation of.**—The fixation of the free nitrogen of the air and soil by the leguminous order of plants, and the development of nodules charged with nitrogen in their roots is a discovery so interesting in itself, and so important to the future of agriculture, that it would have been gratifying to be able to record some further progress in connection with it. Something has been established, but not sufficient to admit of the matter being removed from the realms of theory, and placed in the rank of indisputable facts. Such advances in science as this would imply are not made in a day, nor a year, and there is a danger of their never being completed at all, unless taken in hand by some individual chemist of supreme ability, such as Liebig. Until some such scientific man of the first rank takes up this question and makes it his own, we may therefore expect to see it drag on in its present undecided and unsatisfactory state.

**Oats, Winter or Tawney.**—Amongst the few corn crops which seem worthy of attention in this country at the present time, the grey winter oat is one of the most important, as its various good qualities specially adapt it for home consumption where a number of hunters and carriage horses are kept. Every home farm, therefore, should have a considerable proportion of its corn land sown to winter oats in preference to wheat. They yield remarkably well, ten quarters per acre being no unusual crop; they weigh remarkably well also, frequently running up to 44 or 45 lbs. per bushel, natural weight, hence they are specially adapted for hunters, hacks, and carriage horses. The short plump berry also grinds

well and makes capital oatmeal, coarse or fine. The straw is very fine and makes splendid fodder when cut young, as it should always be, these oats having a great tendency to shed if allowed to get too ripe. Winter oats should be put in early, before Michaelmas, if possible, and the ground should be as well dressed as for wheat, as they are a somewhat exhaustive crop.

**Osiers.**—Among the means of utilizing certain descriptions of waste or unproductive land by timber, the cultivation of osiers is not to be despised. There is a good demand for them at fair prices, and considering the many uses to which they can be put, that demand appears capable of large expansion. No great expense attaches to adapting suitable land to the growth of osiers. It should be low lying marsh or meadow, and all that is required is to cut surface drains about 1½ ft. wide, and just deep enough to carry off the water, at 10 or 12 feet apart. If near a running stream the drains should be cut at an angle with the flowing water, so as to ensure its being constantly changed and prevent stagnation. Cuttings from one year old shoots, about 14 inches long, should be used for planting, and they should be thrust into the soil about two-thirds of their length. The soil should be dug over once a year in the autumn. The distance apart at which they should be planted must to some extent be determined by the size of the osier chiefly required. The usual distance is 18 inches in the lines, the latter being from two to three feet apart.

**Pigs.**—Throughout last year as well as one or two preceding ones, pigs have paid better than almost any other kind of farm live stock. The price obtainable for bacon and pork has been good on the one hand and the cost of fattening materials whether home-grown or purchased, has been low on the other. These conditions bid fair to continue through the present year, for the number of pigs in the country, according to the Agricultural Returns is still on the decrease. Under these circumstances, it might almost be expected that pig-breeding would become temporarily fashionable, as it is certainly attractive from a monetary point of view. The briskness, however, does not seem to have had much effect on the price of pedigree pigs, which seems to have been influenced rather by the prevailing dulness in agriculture generally, than by the exceptional demand for pork and bacon. Berkshires still remain the most popular breed of pigs in the southern parts of the country, but, at the few public sales of notable herds that have taken place during the past year, no very extraordinary prices were realized. Precisely the same may be said of the Large and Small Whites: they may have sold well in private and for ordinary purposes, but for improved breeding there has been no specially good demand for them; of Tamworths, there is absolutely nothing to record, except that there has been a fluctuating demand for exportation. The falling off in pigs during the past year was not a great one, the actual figures being, in 1893—1,793,456—in the preceding year they were 1,828,542. This decrease in the present year, amounting to 35,000, was in England only; the total number of swine in the United Kingdom and Ireland having increased by 12,000 during the past year.

**Poll-Evil.**—A well known authority on horses and their treatment in health and disease, recently observed that the best cure for poll-evil of three years standing was the pole-axe. He might have left out all about the three years standing, for genuine poll-evil is practically incurable from the first, and, although a horse afflicted with this loathsome complaint may be worked on a

farm, or elsewhere out of sight, its selling value is no more than its diseased skin and carcase are worth, which is not much, as both should be buried out of the way. Some veterinary surgeons profess to be able to cure poll-evil; if so, it may be well to let one of them take the case in hand, on the principle of "no cure, no pay;" but it is emphatically *not* well to suffer groomsmen, stable-men and other amateurs to meddle with horses affected with poll-evil; far better apply the pole-axe at once.

**Poultry Schools.**—There is no minor industry connected with agriculture of greater importance than poultry-keeping. The demand for eggs is a practically unlimited one, and even with regard to poultry there are many people who would purchase double the quantity they do at present if the price demanded for good English ducks and fowls were a little more reasonable. It is not that the actual producers of eggs and poultry get any too well paid for their trouble, but that, as a rule, they do not keep enough, or keep them in a sufficiently systematic way, and the consequence of the industry being in this scattered and unorganized condition is, that middlemen of one kind and another swarm between the producer and consumer, and whilst continually enhancing the price to the latter, absorb a large share of the legitimate profit of the former. The first step towards a better state of things would be a little practical instruction to cottagers and labourers as to the best way of keeping and managing poultry, and the County Council of the Isle of Ely have made a very judicious step in this direction by opening a Poultry School on the same lines as the Dairy Schools, which have done so much good, and become so popular throughout the country. The scholars at this School were taught how to breed, feed, fatten and kill fowls in the most advantageous manner, so far as such teaching could be accomplished within a limited space of time, and if the example were generally followed by other County Councils there can be no doubt a great impetus would be given to poultry-keeping amongst the very class best adapted for the industry, and standing most in need of the profits to be made from it.

**Rabbits and Rabbit Warrens.**—If wild rabbits had to be imported into this country from abroad, it would not, perhaps, be wise to say or do anything having a tendency to promote their introduction, but, as they are here, it is well to make the most of them, and keep them under control as far as possible. Such control in nowise interferes with their production for legitimate sport, whilst it tends greatly to increase their number and value from a commercial point of view. The systematic rearing and feeding of wild rabbits on estates, as a source of revenue, is extending, and there is much to be said in favour of it. When properly managed, it is a very productive source of income involving no great initial outlay and very few after expenses. All that seems necessary, according to the latest and best authorities on the subject, is to enclose a piece of rough pasture, of convenient size, having, by preference, a somewhat sloping southern aspect, and a dry soil and subsoil, not necessarily sandy; in fact, a loam by preference. It frequently happens that there is on an estate a piece of pasture or feeding ground just suited for the purpose, and this being so, it is not necessary to prescribe any particular measurement, as it would be better to proportion the rabbits to the ground, there being no need for a limit in this direction in such a case. This piece of land should be enclosed by a rabbit-proof wire fence, and, if there are any natural sunny banks on it in which

rabbits can make burrows without running the risk of being washed out by hasty storms or long continued rains, all that is necessary is, to bore holes in these banks to direct the rabbits to them, and help them to make a start; they will do the rest themselves. Where there are no such banks, or not sufficient for the purpose, artificial burrows must be raised above the ground level, so as to secure protection from flooding. These should be distributed about a hundred yards apart, over the whole of the warren, as it has been proved by experience that rabbits always prefer feeding as near home as possible, and, in this way, the whole of the ground will be utilised for feeding purposes. If the burrows are not distributed in this way, some parts of the pasture will be too closely fed, while other parts at a distance from the burrows will be left almost untouched. If the pasture or feeding ground is kept properly dressed, a very large number of rabbits may be fed and fattened on it through the summer and early fall, without any artificial food whatever. The dressings most strongly recommended for the purpose are, gas lime put on in November, and a slight sprinkling of salt in the spring, both repeated every year. On ground thus dressed, rabbits luxuriate, biting the grass down to the very roots, and it has been found that as many as a hundred can be maintained and sold off fat in the fall, from every acre of average pasture, without deteriorating, but rather, if anything, improving it. This will give some little inkling of the profit to be made from a rabbit warren systematically arranged and managed. A hundred rabbits per acre may be reckoned on; the price, being a variable quantity, must be gathered in the neighbourhood. In winter it is necessary to give a little extra food, such as Indian corn, turnips, hay, and vegetable refuse, and this constitutes all the expense attendant on a warren of this kind, beyond the looking after, rent of land, &c., and interest on the trifling preliminary outlay. Much valuable information on the subject is to be got from a little book entitled "The Wild Rabbit," by Mr. J. Simpson, wood agent to the Earl of Wharnccliffe, on whose estate a most profitable warren has been established. This book is published by Wm. Blackwood & Sons, and gives, amongst much else, particulars of a capital and most humane plan of trapping rabbits on a large scale.

**Racing in 1893.**—The flat racing season of 1893 opened with what was a surprise to some, although almost a foregone conclusion to others, viz., the winning of the Lincoln Handicap by Wolf's Crag, at odds of 20 to 1 against, the jockey being W. Bradford. For some reason the winner has not shown up again during the season more than once or twice, so that no other victories can be placed to his record, which, as a two-year-old, was a remarkably good one. In the Two Thousand Guineas the horse of the year, Isinglass, made his first appearance for the season, and carried off the prize, which was £4,250, very easily from Ravensbury and Raeburn, second and third respectively, the odds being 5 to 4 in his favour. This was the first of his victories, but by no means the last, as he scored again in the Newmarket Stakes, value £3,795, on May 17th, with odds on. His next achievement was the Derby, which he pulled off with the same apparent ease as in the two previous cases, the stakes thus secured being £5,515, and the odds being 9 to 4 on him. His next and final feat, and that which places him in a proud position among winners, if he should never win again, was the St. Leger, value £5,300; but the greatest distinction connected with which was that it followed the Derby, so placing the winner in the envied degree of having

carried off the far-famed double event, or if the Two Thousand Guineas be taken into account, treble event, with regard to which in past times there was so much long-winded betting, much more, proportionately, than at present. The last appearance of Isinglass, although by no means redounding to his discredit, did not add to his list of victories. The Lancashire Plate, of greater money value than either of the older prizes, was carried off from him by Raeburn, who up to that time, although generally second or third, had not been regarded as a very formidable rival. Of the other principal events at the Epsom Derby Meeting, the Oaks was won by Mrs. Butterwick, after having been beaten in a minor race the same week, and sustaining defeat on several other occasions. The Epsom Grand Prize, value £1,880, was won by Tandaragee, who beat Raeburn, giving away a stone. The City and Suburban, value £1,565, was won by King Charles, at long odds, many apparently better horses being beaten. The One Thousand Guineas was won by Siffleuse, formerly La Belle Siffleuse, at 33 to 1 against; and the Liverpool Spring Cup, value £726, by Buccaneer, the greatest distinction this much-talked-of horse was able to place to his credit during the past year. The Great Jubilee Stakes, somewhat reduced in value but still amounting to £2,650, were won by Orvieto, a grand horse which seems in some way to have missed the mark he should have made. The Royal Two-Year-Old Plate, value £2,705, was won by Schoolbook, of whom something will be heard during the present season; as will be the case with Speed, which carried off the Ascot Two-Year-Old Biennial; whilst Red Ensign won the Prince of Wales' Stakes, of £2,025; and Marcion the Ascot Gold Cup; Phocion the Ascot Derby, value £1,275, and the St. James' Palace Stakes, value £1,850, having Raeburn and Ravensbury behind him. Watercress scored in the Hardwicke Stakes, value £2,305. At Sandown July Meeting the great Eclipse Stakes, the richest prize of the year, value £9,902, went to the famous Orme, with regard to whose career there has been so much said; his rival of the preceding year, La Flèche, and the favourite on this occasion, coming in third only. This famous mare, the heroine of 1892, seemed out of sorts in 1893, and only scored in the Liverpool Autumn Cup at the end of the season. At Goodwood, Red Eyes won the stakes, and Bullingdon the Prince of Wales' Two-Year-Old Stakes, value £2,000. The Doncaster Cup was won by Prisoner, and the Champagne Stakes, value £1,250, by the Illuminata Colt, now Ladas, the favourite for the coming Derby. Match Box, which will prove a formidable rival, won the Great Breeders' Produce Stakes, value £4,310, at the Kempton October Meeting, and Avington the Duke of York Stakes. Of the Great Autumn Handicaps at Newmarket and elsewhere, Red Eyes and Cypria won the Cassarewitch; Ladas the Middle Park Plate; Molly Morgan the Cambridgeshire; and La Flèche, as before stated, the Liverpool Autumn Cup.

**Racing, the Rules of.**—During the past year some rather important alterations were made in the Rules of Racing by the Jockey Club. They chiefly, although not exclusively, refer to the naming of horses, and their object is to guard against names being duplicated, so as to cause annoyance, objection and confusion. Considerable difference of opinion prevailed at the meeting of the Jockey Club at which the matter was discussed, and it was eventually decided that the rule should stand as follows:—

65. (i) A name can only be claimed for a horse by application at the Registry-office, with the description according to rule, when, if there is no other horse of the same name, it will be registered and published in the first Sheet Calendar after the day the name is claimed.

(ii) In the case of a horse which has been entered either abroad or in Ireland, under the same name as one already registered, the name may be claimed for him if accompanied by a numeral, and the name with the numeral will thereafter be his name under these Rules.

(iii) If the same name be claimed for two or more horses, the order of priority shall be determined by lot at the Registry office.

70. The entry shall be in the name or assumed name of one person, and shall state the name or assumed name of the owner, the name of the horse, if registered, or his description, according to rule, if name not registered, and if the race be for horses of different ages, the age of the horse at the time of entry, or at the time the race is to be run.

80. In entering a horse whose name has not been registered it shall be described by stating the colour (when possible), and whether a horse, mare or gelding, and the registered or Stud Book names or description of its sire and dam. If the dam was covered by more than one stallion the names of all must be stated. In all cases such pedigree and description must be given as will clearly distinguish the horse entered from all other horses, and if the pedigree of the sire or dam be unknown, such further particulars must be given as to where, when, and from whom it was purchased or obtained as will identify it.

84. No alteration or addition shall be made in any entry after the time fixed for closing, except that when a horse has been duly described a name may be added, or when an assumed name has been abandoned under rule.

The other alterations refer to the 5-lb. allowance for apprentices, which instead of being forfeited after three wins, may now be claimed in selling races for one year, however many wins the lad may have secured, and to the conditions under which dead-heats shall be decided, which have been somewhat modified.

#### **Road Repairing, Liability in connection with.**

It is well to be acquainted with the exact state of the law in matters affecting the repair of roads as well as other things, and it appears that the exact state of the law in this case is that you can obtain no compensation for damage to person, carriage or horse, resulting from the neglect of the proper authorities to keep the road in repair. An indictment may be preferred against the road, or the surveyor can be proceeded against for penalties, but no damages can be obtained from any highway board, however gross the neglect, if that neglect simply consists in non-repair. This state of the law is admittedly very unsatisfactory, but the highest authorities have pronounced it to be the law at present and every action that has been brought on the point has eventually been decided in this sense, and all previous judgments reversed.

**Roaring.**—A roaring horse is by no means an acquisition, except to the troubles and worries of life, and the quickest and surcest way to get rid of the burden is, to get rid of the horse, not by temporarily allaying the noise by some kind of doctoring, and then passing it on or off, like a bad shilling, but by destroying the animal. There are not wanting some who lay claim to having discovered an effectual remedy for the affliction, but, it is only necessary to be acquainted with the real nature of it, to be aware that this is practically impossible. Roaring results from a failure or paralysis of the great nerve acting on the larynx, and not until new nerves

can be put into the human or animal organization can roaring be cured. Surgical science has done something towards "patching up" roaring horses, by effecting a union between the paralyzed nerve and an adjoining sound one, but this most delicate and difficult operation can only be undertaken in special cases, and could only be partially and temporarily successful in any.

**Scotch Fir.**—The advantages of Scotch fir are that it will grow almost everywhere, especially in situations where nothing else can be found to flourish, or even to take root. It actually shows a preference for poor soils, and thrives better on them than in some rich ones, that is, if the poor soils are dry and the rich ones a little too much charged with moisture. As a means of turning waste lands to account as well as for sheltering purposes, in high, exposed places, it has, therefore, a great deal to recommend it. As a source of revenue in plantations it has this drawback, that it does not come into profit until arrived at full maturity. Then, however, to those who can wait, it pays well, making an ample return for the trifling outlay incurred in connection with it, and for the occupancy of the ground. If raised from seed care should be taken to obtain it from a hard climate. That from the Scotch Highland forests is the best.

**Sheds and Shelters, Cheap.**—Nothing is more essential in connection with stock-keeping than an abundance of shelter both at the homestead and in the fields and pastures. Protection is required alike in summer and winter, from the downpour of sunshine as well as from pitiless rains and biting blasts. It is not at all necessary that the shelter should be of a solid, substantial, and therefore expensive nature; all that is required is that it should be strong enough to withstand the habit of cattle rubbing against it. Stout posts at the corners, properly let into the ground and joined above by means of suitable framework, are all that is required in the way of solidity, the walls may be constructed of wattle and daub, furze, or a coating of straw, and the roof of sedge or shingles. There is a notion prevalent that such erections are not only unsightly but derogatory to the character and position of a large land owner, but agriculture will not pay for expensive erections at present, and the comfort of live stock is of more importance than mere appearance.

**Sheep.**—To a considerable extent not only the market for sheep for stock purposes, but the well-doing of the flock generally, was adversely affected by the peculiarities of the past season, and the difficulty in many cases of providing an adequate supply of proper food. Perhaps many flocks suffered more than they need have done, through want of sufficient moisture, and the neglect on the part of their owners to provide them with water. The difficulty of obtaining this most necessary refreshment for sheep in very dry weather, no doubt operated with many flock-masters, but the effects of the neglect were so serious, that they are to be seen to this day in the low condition, and generally poor and unthriving state of many flocks. Those breeds, such as the Shropshires, which are in great request for stock purposes, and are, therefore, most carefully attended to, have suffered less than ordinary flocks, and, at the public and private sales and lettings of this particular breed, there was little falling off in the desire to obtain choice rams, and ram lambs, or in the prices paid to secure them. No breed of sheep maintained its popularity during the past season better, or indeed so well as this, as is evidenced by the number of sales, and the phenomenal prices obtained, amounting to such sums as 175 guineas, and in one

case, to 250 guineas, although the general run may have been somewhat lower than in the preceding year. Oxfordshire Downs have also well maintained their reputation at the few notable sales at which they have been offered. They are, however, a comparatively restricted breed, and no indications were forthcoming last season of their being at all likely to grow in request outside the present demand. Hampshire Downs, although they suffered no loss of reputation did not quite maintain the level of prices to which their deservedly good qualities, amongst which early maturity stands foremost, had carried them a year or two back. This, however, may be distinctly set down to the peculiarities of the season, and to the fact that, in the districts in which they most abound, the drought has been more severely felt than in almost any other part of the country. Fashion, moreover, has not told in their case; when sought, they are sought entirely for their intrinsic qualities, and nothing in last year's transactions warrants the conclusion that the demand for them is not a steadily growing one. The kindred breed of Southdowns suffered from a market point of view perhaps less than any other of equal importance, from the drawbacks of the season. Rams and ram lambs sold and let well, and the demand for ewes for breeding purposes was exceptionally good, some of those of H.R.H. the Prince of Wales, making quite phenomenal prices. Of Longwools of the various breeds, there is not much to say. Some few Lincolns and Border Leicesters were disposed of privately, at good prices, chiefly for exportation. The Border Leicester is the breed or cross in most growing demand, both for colonial and home use, that is, amongst this class of sheep; but there can be no doubt, that, at home, the various breeds of Downs are supplanting the Longwools. The Returns for the past year again show a deplorable falling off in the number of sheep in this country, the exact figures being:—1893—ewes kept for breeding, 6,151,557: in 1892, the figures are arranged somewhat differently, the ewes kept for breeding being massed with other sheep above one year old; but the totals of all sorts and ages, read as follows:—1893—total sheep and lambs, 16,805,280; in 1892, total sheep and lambs, 17,993,756, decrease, 1,188,476. These figures apply to England only. For the United Kingdom and Ireland, the totals were:—1893—81,774,824, whilst in 1892, we had 33,642,808, showing a total decrease of 1,867,974, for which it is difficult to account.

**Shooting, The art of.**—Shooting is one of those things that to some extent come by nature, but scarcely to the extent necessary to make a thoroughly good shot. Many things go to this. There must be nerve, good eyesight, instinctive quickness, and finally, practice and experience. But practice and experience between them constitute art in shooting, and here it is that the art of shooting comes in. The proper place to learn this art of course is in the field or covert, or wherever the particular kind of sport affected leads the sportsman, that is to say, the art must be acquired practically to be reliable, and a little knowledge of it gained in the field is better than a great deal of theory. While this should always be kept in mind, it does not follow, however, that a perfect knowledge of the theory as well as the practice of shooting is at all superfluous, or that a great many valuable "wrinkles" may not be gained by the careful study of a thoroughly good work on guns, gunnery, and the art of shooting generally. Such a work we have before us, that of Mr. Charles Lancaster, of 151, New Bond Street, W., which is full of excellent advice to the sportsman from a man thoroughly

conversant with guns in every shape and form, both as regards their construction and their use. Mr. Lancaster evidently possesses the rare faculty of conveying instruction in such a way as to make it thoroughly understood by any person of ordinary intelligence, and in this he has been greatly assisted by the illustrations of Mr. J. Temple, which present the sportsman in every conceivable aspect and attitude consistent with being able to shoot properly, and in two or three positions not consistent with this, the latter being put in designedly as warnings or admonitions of "how not to do it." After looking very carefully through Mr. Lancaster's book, we do not hesitate to say that it is the best practical treatise any sportsman can take as a guide to the art of handling a gun effectively, and to recommend all those who have not already done so, to possess themselves of it.

**Silage.**—The fate of this method of preserving various kinds of fodder for winter use seems, as far as this country is concerned, to be hanging in the balance with an inclination to droop the wrong way. In some circumstances standing still is equivalent to a retrograde movement and as, in spite of the exigencies of the season and the alarming prospect of scarcity of fodder for carrying our live stock through the winter, in consequence of the failure of the hay crop, very few, if any, additional converts have been made to the silage system during the past year, and very few additional efforts to increase the supply of winter food by means of it, we may safely conclude that the system is making no progress at all in public favour. Those who adopted it at the outset still, for the most part, continue its use, which should be an argument in its favour, whilst the discovery of extremely simple and inexpensive methods of making it should be another, and yet it does not advance. We record the fact, but make no comment on it.

**Sires, The influence of.**—There is nothing more mysterious in Animal Physiology than the far-reaching influence of sires on the subsequent progeny of mothers, with the generation of which they have had nothing to do. That it is an irregular influence not always manifesting itself to the same extent may be freely admitted, but that it exists and operates with sufficient frequency to interfere with the calculations of the scientific breeder, is a fact too patent to be gainsaid. Cases of the kind are frequently cropping up, and it was only the other day one appeared in the papers, in which a shorthorn cow, after herding in the North with the white breed of cattle and breeding from a white sire, came South and was crossed by a shorthorn bull. Her calf was white and possessed all the characteristics of that breed. This case is only mentioned from its recent occurrence, but similar instances, amongst mares especially, are quite frequently recorded, one of the most remarkable being that of a mare, which after breeding from a quagga was covered by an Arabian horse more than once, the colts each time being more or less striped.

**Soils, Analyzing.**—Many practical farmers are in the habit of laughing at the idea of getting much useful information from a mere chemical analysis of a soil, but there can be no doubt that if the analysis is thoroughly and efficiently carried out it is of the greatest possible assistance, or may be made so, in the successful cultivation of that soil. With regard to many soils, what is wanted to be known is not so much what constituents they contain as what they are *lacking* in. It not infrequently happens that a soil which to the mere eye looks good and everything that can be desired for the growth of crops, will not upon trial grow anything

at all, and many have been ruined on such farms. In such cases the soil, although it may be deep, friable, and of a good colour, must be utterly destitute in some important constituents, very often phosphoric acid, and sometimes, of course, nitrogen, but in either case capable of being artificially supplied, to the vast increase of its productive capacity. The analysis, of course, must be a thorough one.

**Spruce.**—This cone-bearing tree, unlike the larch and Scotch fir, reaches its greatest perfection in low moist places. It will grow and thrive to some extent in high and exposed positions, but does not show to advantage there by the side of other conifers. From the fact of its thriving in situations where other kindred trees do not thrive, it is valuable for plantation purposes on a large estate, where it may be necessary to plant some low lying spots having a superabundance of moisture, when it develops well, so as to admit of being cut into planks. The timber is of fine grain, but soft and white, and does not realize a very high price. One of the best uses for spruce is as a nurse and protector of other trees, as its limbs and foliage grow low down. In this sense it is useful on the outsides of plantations and shrubberies. When grown for timber, spruce trees should be planted very closely together, so as to check the exuberance of these lower branches, which spoil the tree.

**Swedes Rotting.**—A serious tendency to go off rotten in frosty weather, or even after much rain, has within the past year or two persistently shown itself in the once hardy Swedish turnip. When it is considered that in conjunction with mangel, which few take the trouble to grow in sufficient quantity to be of much use for the purpose, swedes constitute the bulk of our dependence in the way of late roots and succulent food generally for carrying along the ewes and lambs until the spring green crops come in, the disastrous nature of this tendency may easily be realized. If some means are not found of checking or putting a stop to it, a serious blow will be struck at our present system of sheep farming on arable land, which is one of the triumphs of British agriculture. Carefully covering the roots in the field so as to protect them from the weather is a precaution which ought now by no means to be neglected, and at least one half of every field of swedes should be dealt with in this way. It is said that simply pulling them from the ground and covering them lightly with mould by means of a plough will be sufficient to check the tendency. These, however, should only be regarded as temporary expedients. The most effective remedy for the evil will be found in the introduction of fresh stocks of hardy seed, that from our own roots having evidently become enervated in some way, probably by too luxurious forcings.

**Swine Fever, Neglecting to Report.**—The provisions of the Swine Fever Order issued by the Board of Agriculture on the 1st of November, 1893, and becoming operative from that day, are, no doubt, familiar to most of our readers, but there is one innocent-looking paragraph in it which it behoves all stock-owners especially to study and observe. It is that requiring the owners of all pigs, amongst which Swine Fever has broken out, to give immediate notice of the attack to the nearest police constable. It is not, perhaps, a pleasant thing to have to do, but the constable in this case is simply the handle which sets all the machinery of stamping out, disinfection and compensation, in motion, so that the owner who neglects to notify him of the facts is acting directly against his own best interests. Even this, however,



would not prevent many from keeping the fact of their having infectious disease on their premises from the knowledge of the Authorities, and the public generally, if they possibly could; hence, connected with this innocent paragraph is a provision rendering the neglect to obey it a punishable offence, with a penalty of £5 for each pig on the premises at the time of the outbreak. As pigs are sometimes kept by the hundred, and very often by the score, even by comparatively poor men, it is easy to see that the maximum penalty, if insisted on, might soon mount up to a sum which would be simply ruinous in some cases, and as magistrates might feel it their duty, if two or three cases of neglect came before them at once, or within a short space of time, to make an example, the safest and wisest plan for everyone whose pigs are attacked will be to give notice at once.

**Traps and Trapping.**—The art of trapping cannot be said to have been studied very carefully in this country up to the present time, with a view to catching various kinds of vermin with the least amount of pain. Some of the traps in use are quite barbarous in their operation, and the shrieks and cries of an unlucky dog, which has happened to be caught in one of them, may be heard half-a-mile away. It is true they were not meant for dogs primarily, although a dog in some positions may be and is regarded as the worst kind of vermin; but even the destructive creatures they are actually intended for have feelings implanted in them by nature, which is also answerable for the instinct that prompts them to destroy. Steel traps are the worst offenders, and in the opinion of many well qualified to speak on the subject, there is no absolute need of them, as the box trap with a little extra trouble may be made to answer every purpose. A humane rabbit trap has lately been constructed of wire netting made in the form of a tunnel, into which rabbits are easily decoyed, and held securely, but it would not be of any use in its present form for stoats or weasels.

**Turnip Seed, Steeping.**—The question of the practicability of so dealing with turnip seed as to check the ravages of the fly and other insect pests on the developed plant must still be regarded as an open one. Instances have been quoted with great confidence, in which a steeping of the seed in benzoline and other things has apparently had the effect of keeping off the fly, but is quite possible that the immunity from attack may have been due to other causes, even when an adjoining piece of turnips, the seed of which had not been dressed, has suffered from an attack. It is not until there is an accumulation of evidence of this kind gathered under a variety of circumstances, that anything like certainty can be arrived at, and up to date, that pile of evidence is not forthcoming. Every additional trial which proves successful, of course, adds to it, and therefore the more trials made the better. Two table-spoonfuls of benzoline to one pound of seed is the proportion most recommended, and the spirit should be well mixed with the seed.

**Twig Forage.**—The French have discovered that the twigs of trees and bushes have some edible properties which qualify them for food for cattle and horses in the absence of anything better. It can scarcely be called a discovery since the fact has always been apparent to those who have observed the habits of animals, amongst which is a propensity for eating twigs. It is now proposed merely to turn this habit to account by collecting the young—they should be very young—shoots of trees, passing them through a machine similar to the gorse-crusher referred to elsewhere and feeding them to cattle. The practical difficulty will be found

to lie in getting men sufficiently careful to collect only the suitable twigs, but if this can be got over, there is much to be said in favour of twig fodder since it is not only fairly nutritious, but the bark contains properties highly conducive to health. It is rumoured, indeed, that twigs constitute the basis of many of the cattle foods and condiments sold in this country, only in this case they are first kiln-dried and then ground to powder.

**Underwood.**—The proper growth and management of underwood is a matter which concerns the country gentleman in several ways. As a branch of revenue calling for increased attention under existing circumstances, coppices and underwoods generally cannot be too carefully looked after, and where the natural growth is defective in value no expense should be spared in supplementing it by artificial plantings, for the outlay is one which if judiciously made will soon repay itself. Hazel is about the best thing to plant, but ground ash and even alders for low lying spots are not without value. Where covert for pheasants is a prime consideration it is well, as pointed out elsewhere, to sow suitable grasses in underwood, not merely as protection but to afford a little natural food for the birds, for which they will always show a preference however well fed. To ensure good sport the "drives" in underwood should be a little wider than they sometimes are.

**Walnut Tree, The.**—It has not hitherto been much the custom to combine the useful or profitable with the ornamental in parks and grounds, otherwise the Royal Walnut Tree would be much more frequently seen under such circumstances than it is at present. There is one grand old double avenue of walnut trees in Oxfordshire, on the borders of the Thames, but probably there are few others. Nor is the formal avenue the position in which the walnut shows to most advantage but in irregular groups of two or three together, or perhaps better still in single specimens. When these latter throw out their branches with some degree of regularity around the trunk and head there is no other European tree that can excel or even equal it in magnificent picturesqueness. Profit in these cases must, of course, always be a secondary consideration, but the fruit from a number of these trees scattered about a park of any size would realize sufficient to furnish, at least, a respectable contribution towards out-door expenses generally, and an occasional fall of walnut trees would be a little fortune.

**Water-Power.**—The introduction of steam, and, especially of portable and traction engines, has too often had the effect of diverting the attention of landowners and farmers from the natural power, which is available in many places, merely at the cost of providing the necessary plant for utilizing it, in the shape of running streams, large and small. The objection to turning them to account often is that half the time there is not sufficient water, so that steam must occasionally be resorted to, and further, that you seem always in danger of being come down upon, by some one above or below, whose rights, real or imaginary, you are charged with invading. There is something, no doubt, in both these excuses. All just claims of the kind referred to admit of equitable adjustment, and unjust claims must of course be resisted, as, otherwise, they will be found to grow very rapidly, and soon extend in other directions. With regard to the inconvenience arising from a short supply of water, storage may be resorted to in one direction, and the introduction of *Turbines* and other improvements, have rendered it possible to obtain a very respectable amount of water-power with a very moderate supply of water, and very little assistance by way of fall.

**Water Supply.**—The past dry year must have strained the resources of many country houses to the utmost in the way of water supply, and in many cases there must have been an absolute scarcity even for the most ordinary purposes. In some remote, high-lying places water-cartage from a distant stream had to be resorted to, not merely for cattle but for domestic purposes in the house. With a system of drainage requiring constant flushing to keep it wholesome, this must be a very awkward predicament to be in, and if likely to be of frequent recurrence calls either for a much larger well or other source of supply, or a resort to some simpler method of drainage than closets and pipes. A large quantity of rain-water may, of course, be stored in connection with a country house not covered with straw thatch, and unless the supply from other sources is very abundant indeed, this rain-water ought never to be allowed to run to waste. A covered reservoir should be constructed to receive it, and such a store of water would have been of inestimable value in many country houses last season. On soils where by deep sinking or boring an abundant supply of water is obtainable, the cost of raising it is the chief drawback, but it is a serious one as it goes on every day. It is desirable in such cases to have two or three wells within a reasonable distance of each other, and a reservoir into which water from all of them may be pumped or allowed to run, so as to secure a supply of stored water in cases of accident and in all emergencies.

**Weaning Colts.**—There can be no doubt that the way to build up a good colt is to allow it to run with the mother as long as possible, to keep the mother well, and not to suffer her to do any hard work or any work at all if it can be avoided. A foal running with the mare in a piece of good pasture, will, to a large extent, wean itself and take to eating grass at a very early stage of its existence. When foals are weaned in yards or sheds on what may be termed artificial food, it is well to avoid pampering them too much with spiced meals, linseed soups and other flavoured foods. If they are given any soup at all the chief ingredient in it should be oatmeal, not linseed, or oats roughly ground and given in a dry state with a little chopped or whole hay, and a little hay tea in lieu of cold pond water, will make good horses of them.

**Wheat-Growing, The cost of.**—Throughout the past year, there raged, and still continues to rage for that matter, a somewhat heated controversy as to the cost of wheat-growing in this country. The issue is certainly an important one, since, if it could be shown, by substantial data, that wheat may still be grown at a profit, a check might be given to the lamentable decline in our wheat acreage, which persistently goes on from year to year, and was greater than ever during the past one. But there seems little prospect of any clear conclusion being arrived at, as the result of this controversy. One party to it persistently maintains that wheat cannot be properly grown here at much less expense than from £7 to £8 an acre, whilst others, amongst whom may be mentioned Professor Wrightson, of Downton College, confidently assert that the actual expenses out of pocket do not much exceed £5, if at all. The remarkable feature in this divergence of opinion is, that it does not proceed from one party actually growing wheat at less expense than the other, but merely from different methods of estimating the various items of which the total is composed. Only a few of these items, such as rent, tithes and rates, are fixed and determinate, all the rest may be differently estimated in accordance with the special views of the person making the calculation. Taking farm-yard manure as

an instance, and allowing that all are agreed that wheat should receive a dressing of sixteen loads of it per acre, we find one man valuing this manure at 5s. per load, while another puts no price at all on it, merely allowing the cost of carting and spreading. Here we have at once a difference of £4 per acre, with nothing extra to show for it. It will be the same crop, produced by precisely the same means, and virtually at the same expense, the difference being merely one of opinion, as to whether farm-yard manure should be charged for or not. But this simple difference of opinion makes a vital difference in the look of the estimate, which, under the circumstances, cannot be accepted as of any practical value at all in determining the point at issue. A little incidental light may be thrown on the subject, by pointing out that good crops of wheat are grown without this farm-yard manure, or any direct application of manure at all. A crop of wheat may be taken after potatoes, which have paid the grower well, including the whole cost of manuring, and, if wheat pays at all here, it will be in such cases as this. To return to the controversy; such differences of opinion with regard to the cost of other items of expense, such as ploughing, &c., run through all the estimates, and the consequence is, that much ink and paper have been wasted without advancing a step, even the preliminary one of settling what the actual cost of wheat-growing is. This will continue to be the case until some principle is accepted as the basis of all estimates, and the only logical principle that can be applied is, that every item of expense should be charged at its actual cost out of pocket, not estimated, but ascertained by properly kept accounts. Whether the game is worth the candle or not, is another matter, but it shows how far agriculture yet is from being an "exact science," when a number of its most prominent professors are to be seen beating the air in this way.

**Winning Jockeys on the Flat.**—The hero of 1893 among Jockeys under the Jockey Club Rules was, undoubtedly, Tommy Loates, who had no fewer than 857 mounts, of which he carried 222 first past the winning post. M. Cannon, whose recent marriage brought him many good wishes, came next with 666 mounts and 182 wins. Little W. Bradford just managed to creep in third with 110 wins, his mounts being 622; he will probably make a still better record this year. G. Barrett stands fourth with 561 mounts and 107 wins; F. Finlay, fifth, with 495 mounts and 100 wins; J. Watts, sixth, with 329 mounts and 92 wins; S. Chandley, 365 mounts and 71 wins; F. Allsopp, 526 mounts and 56 wins. Many other Jockeys, including Pratt, Platt, Fagan, Colling, Woodburn, and others did well in proportion to their mounts, and this, after all, is the true test. When the above figures are analyzed, it will be found that J. Watts with his modest 92 wins really stands at the head of successful jockeys for the year, his average being one win to 3½ mounts, or 2 wins in every 7 mounts, whilst the best of the others can no more than show 1 win in every 4 mounts, or, in two cases, just a fraction less.

**Winning Owners of 1893.**—History did not repeat itself in this connection last year for Baron Hirsch, whose success is always popular on account of the charitable disposal of the stakes, did not score well at all in 1893. The head of the list this year was Mr. McCalmont, owner of Isinglass, with £25,431, chiefly from the horse just named; next comes his Grace the Duke of Westminster with £16,625, Orme contributing the lion's share; then the Duke of Portland with £15,527, due to Raeburn and Mrs. Butterwick to a large extent; Sir J. B. Maple makes a most respectable score with no less than £10,246, contributed to by many good horses;



Mr. D. Baird stands on the list for £10,265; Lord Ellesmere for £9,910; Mr. T. Cannon for £9,863; Col. North, £9,644; Mr. N. C. Vyner, £9,086; Baron de Rothschild, £8,462. Smaller owners had proportionately smaller winnings as a matter of course, but some of them may have done better than the above by reason of being at a great deal less expense.

**Worm-Casts.**—Worms are a great nuisance on bowling-greens, golf-grounds, and other pieces of turf where a perfectly smooth surface, approximating to the bed of a billiard table, is desirable. To get rid of them, however, is a very difficult matter, as they are the natural inhabitants of the soil, not easy to dispossess. When they become very troublesome and spoil the appearance as well as the smooth surface of a piece of turf by throwing up innumerable casts, their numbers may be considerably reduced by watering the turf with a solution of gas-lime and water, the lime being allowed to settle at the bottom of tub before the mixture is used. This solution has the effect of bringing the worms to the surface in large numbers and in a very short time, when they can be swept away with little trouble. For dispersing worm-casts there is nothing equal to a piece of cocoa-nut matting, of a convenient width for dragging about, and having a bar of wood affixed to the bottom end to keep it down. It acts much more effectively than a roller, spreading and distributing the mould so that it is not discernible, in a very short time.

**Yachting.**—The past year was a great one for what may be termed competitive yachting, which of course gives an impetus to private yachting as well, evidence of which was to be seen in the crowded state of the Roads at Cowes, and in the Solent generally. The weather, with its long continued blaze of sunshine, contributed largely to this state of things, making the cool sea breezes a very acceptable refreshment after the heated town atmosphere. The great event, or rather events of the season in the yachting world, were the races in which our American cousins took part, and in which they made such determined, although only partially successful efforts to recover past laurels. The craft on which the Americans built their hopes was the *Navahoe*, from which great things were expected, but she did not prove quite so victorious as had been anticipated, the fact being, that in view of her coming, our own yacht builders had set their wits to work to produce something specially designed to compete with, and if possible, beat her. This they certainly succeeded in doing, for the *Britannia*, *Valkyrie*, *Satanita*, *Calluna*, *Iverna* and *Meteor* all gave a good account of themselves, and of these, three were new ones. The *Navahoe* had the prize awarded to her in the match across channel with the *Britannia*, her owner claiming it on the ground that she would have been much nearer the latter, had the flag-boat been properly placed. The royal owner of the *Britannia*, however, was amply consoled for this award by the grand roll of prizes scored by her during the season, amounting to no fewer than 33 out of 43 starts, the prize-money, taking in the Royal Victoria Challenge Cup, the Cape May Challenge Cup, the Meteor Challenge Shield and the Royal Alfred Cup, totalling up to £2,527. This was the greatest achievement of the season, and H.R.H. the Prince of Wales is to be much congratulated on his new acquisition. Lord Dunraven's *Valkyrie* gave the next best account of herself with 15 prizes out of 24 starts, and a total value in prize-money of £960. She was, however, defeated three times by the *Vigilant* in the American Cup matches, but this in no way

redounded to her discredit, the *Vigilant* being able to spread 1,300 square feet more canvas, and then never beating her by more than 10 minutes, and in one case only by 40 seconds. The new craft, the *Satanita*, belonging to Mr. A. D. Clarke, won 13 prizes out of 36 starts, the money value of her winnings being £760. Mr. P. Donaldson's *Calluna* won 10 prizes out of 36 starts, money value £320. The *Iverna*, owner Mr. J. Jameson, had 25 starts and carried off 6 prizes. One of these was won in a match with the Emperor of Germany's *Meteor*, which little craft consoled her imperial owner by winning the Queen's Cup at Cowes, for which the *Valkyrie* was disqualified. Altogether, the year 1893 will be a memorable one in the annals of yachting, but the International rivalry in this Royal sport is so strong that we may soon have another season which will surpass it in interest.

**Yachts, Auxiliary Power in.**—For those who go in for racing only, of course the question of auxiliary power possesses little interest, for they cannot avail themselves of it under present conditions, but for every other yacht owner it is one of considerable importance. Sentiment, in some old-fashioned minds, still runs strongly against it, but from every other point of view there is a vast deal to be said in its favour. Among the pleasures of yachting the being becalmed in mid-ocean for a more or less prolonged time can scarcely be reckoned as the most enjoyable, even when time is no object and the yacht might nearly as well be in one place as another. To a great extent it is a question of expense, not merely initial and in the cost of fitting, but in the introduction of a staff of highly-paid engineers. If some system of storing electric power could be devised which might be brought into occasional use and would require no special staff, nearly every objection to auxiliary power would be removed and its adoption become universal.

**Yew Poisoning.**—Several cases of yew poisoning occurred last year, and the wonder is that they were not more numerous, considering the bare state of the pastures and the tendency developed in cattle under such circumstances to break bounds, wander away in search of food, and devour anything edible coming within their reach. It does not need the provocative of extreme hunger, however, to induce cows, sheep or horses to eat yew, of which they seem to be particularly fond, a somewhat unusual propensity as regards poisonous plants, which raises the abstract question as to whether yew is really a poison or not. It is not necessary to pursue this question further here, for the fact is too patent that whether an absolute poison or not, yew is a very dangerous thing for animals to eat, and the result of eating any very large quantity of it is almost certain death. The utmost care should therefore be exercised in keeping cattle away from it, for this is the only certain way of preventing serious mischief. Antidotes of various kinds have been put forward, but few of them, if any, are effectual in preventing fatal consequences when once a large quantity of yew has been conveyed into an animal's stomach. If death does not shortly ensue, it is almost sure to take place later on, in consequence of the irritating action of the poison on the bowels. Among the antidotes prescribed may be mentioned carbonate of ammonia, sweet spirit of nitre, sal volatile and spirits, but one of the best and most effectual as well as easily accessible, is a mixture of old Scotch whiskey and linseed oil, consisting of nearly a pint of each.

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# AGRICULTURAL SHOWS IN 1894.

*Vide "AGRICULTURAL GAZETTE."*

## APRIL.

- APRIL 5.**—Royal Jersey Agricultural and Horticultural Society (Bull Show), at *St. Heliers*. Entries close March 25. Secretary, Mr. C. L. H. Le Cornu, La Hague Manor, St. Peter's Jersey.
- APRIL 11.**—Lechlade and V. W. H. Horse Show, at *Lechlade*. Entries close April 2. Secretary, Mr. T. Hewer, Dud-grove, Fairford.
- APRIL 13.**—Kilmarnock Farmers' Society, at Rugby Park, *Kilmarnock*. Entries close March 30. Secretary, Mr. James Wilson, the National Bank of Scotland, Limited, Kilmarnock, N.B.
- APRIL 17, 18, 19, and 20.**—Royal Dublin Society, at Balls Bridge, *Dublin*. Entries close: Stock, &c., March 15; implements, March 1. Secretary, Mr. R. J. Moss, Leinster House, Dublin.
- APRIL 24.**—Hereford Cattle Breeders' Association, at Cattle Market, *Hereford*. Secretary, Mr. J. O. Urwick, 20, East Street, Hereford.
- APRIL 24 and 25.**—Ayrshire Agricultural Association, at *Ayr*. Entries close April 10. Secretary, Mr. James McMurtrie, 70, Newmarket Street, Ayr.

## MAY.

- MAY 2 and 3.**—Glasgow Agricultural Society at *Glasgow*. Entries close: Implements, April 11; Stock, April 18. Secretary, Mr. Alex. Russell, 175, West George Street, Glasgow.
- MAY 4 and 5.**—Wharfedale Agricultural Society, at *Olley*. Entries close April 21. Secretary, Mr. William Holmes, 34, Market Place, Olley, Yorks.
- MAY 9, 10, and 11.**—Somerset Agricultural Association, at *Bridgwater*. Entries close: Stock and implements, April 11; poultry, dairy, &c., April 14; post entries, double fees, April 20. Secretary, Mr. T. H. Boys, West End, Bridgwater.
- MAY 12.**—Dumbartonshire Agricultural Society. Entries close May 5. Secretary, Mr. William Davie, Main Street, Alexandria, N.B.
- MAY 12.**—Darwen and District Agricultural Association, at *Darwen*. Entries close May 1. Secretary, Mr. J. Ainsworth, Bank Chambers, Darwen.
- MAY 14.**—London Cart Horse Parade Society, at Inner Circle, *Regent's Park*, N.W. Entries close one week previous. Secretary, Mr. Frank F. Euren, 11, Chandos Street, Cavendish Square, London, W.
- MAY 14.**—Clitheroe Agricultural Association, at *Clitheroe*. Entries close May 7. Secretary, Mr. W. A. Dewhurst, Church Brow, Clitheroe.
- MAY 14 and 15.**—Newark Agricultural Society, at *Newark*. Entries close May 2. Secretary, Mr. Edward Brooks, Barnby Gate, Newark.
- MAY 17.**—Prescot and District Agricultural Society, at Knowsley Park, *Prescot*. Entries close May 1. Secretary Mr. Edmund Range, 11, West Street, Prescot.

- MAY 17, 18, 19, 21, 22, and 23.**—Royal Agricultural Hall Horse Show, at *Islington*, N. Entries close May 3. Secretary, Mr. R. Venner, Royal Agricultural Hall, Islington, N.
- MAY 23.**—Royal Jersey Agricultural and Horticultural Society at *St. Heliers* (Jersey). Entries close May 12. Secretary, Mr. Chas. L. H. Le Cornu, La Hague Manor, Jersey.
- MAY 23 and 24.**—Oxfordshire Agricultural Society, at *Wallingford*. Entries close: Implements, April 11; stock, April 18; post entries (double fees), April 25. Secretary, Mr. James Mallam, 126, High Street, Oxford.
- MAY 23, 24, and 25.**—Devon County Agricultural Association, at *Exeter*. Entries close April 12. Secretary, Mr. John L. Winter, Totnes.
- MAY 30, 31, JUNE 1, 2, and 4.**—Bath and West and Southern Counties Society, at *Guildford*. Entries close: Implements, March 20; stock and dairy produce, April 12; poultry, May 7. Secretary, Mr. Thos. F. Plowman, 4, Terrace Walk, Bath.

## JUNE.

- JUNE 2.**—Eastern District of Stirlingshire, Agricultural Association, at *Falkirk*. Entries close May 26. Secretary, Mr. Thomas Binnie, Falkirk.
- JUNE 2.**—Wakefield Agricultural Society, at *Wakefield*. Entries close May 26. Secretary, Mr. C. J. Dodds, Wakefield.
- JUNE 6.**—Yealmpton Agricultural Association, at *Yealmpton*. Entries close May 15. Secretary, Mr. John Pearse, Ridgeway, Plympton, near Plymouth.
- JUNE 6 and 7.**—Nottinghamshire Agricultural Society, at *Nottingham*. Entries close May 12. Secretary, Mr. W. H. Bradwell, Thurland Street, Nottingham.
- JUNE 7.**—Renfrewshire Agricultural Society, at *Paisley*. Entries close May 31. Secretary, Mr. Benjamin Long, Solicitor, Paisley.
- JUNE 7 and 8.**—Wiltshire Agricultural Association, at *Devizes*. Entries close May 10. Secretary, Mr. James Welch, Market Lavington, Devizes.
- JUNE 8.**—Stirling Agricultural Society, at King's Park, *Stirling*. Entries close June 2. Secretary, Mr. Robert Taylor, 46, Barnton Place, Stirling.
- JUNE 12, 13, and 14.**—Herefordshire Agricultural Society, at *Hereford*. Entries close May 12. Secretary, Mr. Alfred Edwards, Corn Exchange Offices, Leominster.
- JUNE 12, 13, 14, and 15.**—Royal Counties Agricultural Society, at *Canterbury*. Entries close: Implements, April 21; stock, April 28, (post entries, May 5); poultry, May 12. Secretary, Mr. Charles Simmons, Basingstoke.
- JUNE 13.**—Edinburgh Agricultural Association, at Warrender Park, *Edinburgh*. Secretary, Mr. James Wylie, Royal Bank, Leven Street, Edinburgh.
- JUNE 13 and 14.**—Royal Cornwall Agricultural Association at *Falmouth*. Entries close May 9. Secretary, Mr. Henry Tresawna, Lamelyn, Probus.

JUNE 13 and 14.—Essex Agricultural Society, at *Colchester*. Entries close May 14. Secretary Mr. Frank Whitmore, Duke Street, Chelmsford.

JUNE 15 and 16.—*Richmond* (Surrey), Horse Show. Entries close June 5. Secretary, Captain Gerald Fitzgerald, Station Hotel, Richmond, Surrey.

JUNE 21 and 22.—North-East Agricultural Association of Ireland at *Belfast*. Entries close May 19. Secretary, Mr. Hugh C. Kelly, Waring Street, Belfast.

JUNE 23 (Implement Yard only), 25, 26, 27, 28, 29.—Royal Agricultural Society of England, at *Cambridge*. Entries close: Implements, Saturday, March 31; post entries, Saturday, April, 7. Live stock and produce, Tuesday, May 1; post entries, May 12. Secretary, Mr. Ernest Clarke, 12, Hanover Square, London, W.

JUNE 30.—Dalkeith Agricultural Society, at Woodburn Park, *Dalkeith*. Entries close June 23. Secretary, Mr. John Dobbie, Campend, Dalkeith, N.B.

JUNE —Holsworthy and Stratton Agricultural Association, at *Holsworthy*. Secretary, Mr. Cecil Bray, Holsworthy, Devon.

#### JULY.

JULY 4 and 5.—Doncaster Agricultural Society, at *Doncaster*. Entries close June 9. Secretary, Mr. George Chafer, 9, Market Place, Doncaster.

JULY 4 and 5.—Norfolk Agricultural Association, at *Great Yarmouth*. Entries close June 2. Secretary, Mr. James Bacon, Attleborough.

JULY 4 and 5.—Co. of Cork Agricultural Society, at *Cork*. Secretary, Mr. C. A. Leslie, 18, Warrens Place, Cork.

JULY 4, 5, and 6.—Shropshire and West Midland Agricultural Society, at *Whitchurch* (Salop). Entries close May 28. Secretary, Mr. Alfred Mansell, College Hill, Shrewsbury.

JULY 6 and 7.—Winterton Agricultural Society, at *Winterton*. Entries close June 28. Secretary, Mr. J. T. Sawyer, Winterton, Doncaster.

JULY 7.—United East Lothian Agricultural Society, at Amisfield Park, *Haddington*. Entries close June 23. Secretary, Mr. John Stirling, Solicitor, Haddington, N.B.

JULY 10, 11, and 12.—Peterborough Agricultural Society, at *Peterborough*. Entries close June 16. Secretary, Mr. J. E. Little, Queen Street, Peterborough.

JULY 12.—Taunton and West of England Horse Show, at *Taunton*. Entries close June 30. Secretary, Mr. J. Darby, 13, Hammet Street, Taunton.

JULY 17 and 18.—North-West of Ireland Agricultural Society, at *Londonderry*. Secretary, Mr. Ashmur Bond, Castle Street, Londonderry, Ireland.

JULY 18.—Huntingdonshire Agricultural Society, at *St. Neots*. Entries close June 27. Secretary Mr. Arthur George Dille, Market Hill, Huntingdon.

JULY 18 and 19.—Northamptonshire Agricultural Society, at *Northampton*. Entries close June 18. Secretary, Mr. H. A. Lovell, Harpole, Northampton.

JULY, 18, 19, and 20.—Lincolnshire Agricultural Society, at *Great Grimsby*. Entries close June 15. Secretary, Mr. Stephen Upton, St. Benedict's Square, Lincoln.

JULY 19.—Northumberland Agricultural Society, at *Alnwick*. Entries close Saturday, June 30. Secretary, Mr. R. Donkin, jun., Rothbury, Northumberland.

JULY 19.—Newport and District Agricultural Society, at *Newport* (Salop). Secretary, Mr. W. H. Burton, Newport, Salop.

JULY 20.—Bedfordshire Agricultural Society, at *Biggleswade*. Entries close June 16; post entries on payment of double fees, June 23. Secretary, Mr. H. R. J. Swaffield, Ampthill.

JULY 20.—Driffield and East Riding Agricultural Society. Secretary, Mr. W. Drinkrow, Exchange Street, *Driffield*.

JULY 21.—Cleckheaton Agricultural Society, at *Cleckheaton*. Secretary, Mr. S. H. Williamson, Bath Road, Cleckheaton.

JULY 24, 25 and 26.—Gloucestershire Agricultural Society, at *Choltenham*. Entries close June 4. Secretaries, Messrs. T. R. Hulbert and W. H. Holland, Cirencester.

JULY 24, 25, 26, and 27.—Highland and Agricultural Society of Scotland, at *Aberdeen*. Entries close: Implements, May 21; stock, June 18. Secretary, Mr. James Macdonald, 3, George IV. Bridge, Edinburgh.

JULY 25.—Malton Agricultural Society, at *Malton*. Entries close July 7. Secretary, Mr. Thos. Mitchell, Malton.

JULY 25 and 26.—Royal Isle of Wight Agricultural Society, at *Newport* (Isle of Wight). Entries close June 16. Secretary, Mr. Henry J. Way, Newport, Isle of Wight.

JULY 25 and 26.—Leicestershire Agricultural Society, at *Leicester*. Entries close: Stock and implements, June 27. Secretary, Mr. J. T. Ardron, Syston, Leicester.

JULY 25 and 26.—Glamorganshire General Agricultural Society, at *Neath*. Entries close June 27. Secretary, Mr. William Vincent Huntley, Welsh St. Donatts, Cowbridge.

JULY 26.—Cleveland Agricultural Society, at *Salisbury-by-the-Sea*. Entries close July 11. Secretary, Mr. John P. Petch, Liverton Lodge, Loftus, R.S.O.

JULY 26.—Herts Agricultural Society. Entries close July 5. Secretary, Mr. A. J. Sherrieff, Hatfield, Herts.

JULY 26.—Launceston Agricultural Association, at *Launceston*. Entries close July 7. Secretary, Mr. John Kittow, jun., West Holm, Launceston.

JULY 26 and 27.—Tunbridge Wells and South-Eastern Counties Agricultural Society, at *Tunbridge Wells*. Entries close: Implements, June 13th; stock, &c., June 20th; poultry, July 4th. Secretary, Mr. Geo. Ware, Frant, Tunbridge Wells.

JULY 26, 27, and 28.—Royal Lancashire Agricultural Society (late Royal Manchester, Liverpool, and North Lancashire Agricultural Society), at *Bolton*. Entries close: Machinery, June 14; live stock, July 2. Secretary, Mr. James Birch, 3, Brunswick Street, Liverpool.

JULY 27.—South Durham and North Yorkshire Horse and Dog Show Society, at The Park, *Darlington*. Entries close July 9. Secretary, Mr. William Sewell, 25, Bondgate, Darlington.

JULY —Stranraer and Rhins of Galloway Agricultural Society, at *Stranraer*. Secretary, Mr. John Bennoch, Solicitor, Stranraer.

#### AUGUST.

AUGUST 1, 2, and 3.—Yorkshire Agricultural Society, at *Beverley*. Entries close June 30. Secretary, Mr. Marshall Stephenson, York.

AUGUST 2.—Tring Agricultural Association, *Tring Park*. Entries close July 11. Secretary, Mr. F. J. Brown, Tring.

**AUGUST 2.**—Ludlow Agricultural Society, at *Ludlow*. Entries close July 15. Secretaries, Messrs. J. W. Davies and Watkins, Auctioneers, Ludlow.

**AUGUST 6.**—Ecclesfield Farmers' Club, at *Sheffield*. Entries close July 28. Secretary, Mr. Robert Lowe, 11, Bank Street, Sheffield.

**AUGUST 6.**—Border Union Agricultural Society, at *Kelso*. Entries close July 13. Secretary, Mr. A. Woodman Main, Solicitor, Kelso.

**AUGUST 6.**—Tyneside Agricultural Society, at *Hexham*. Entries close July 25. Secretary, Mr. T. J. Young, 1, Hallstile Bank, Hexham.

**AUGUST 6.**—Whalley Agricultural Society, at *Whalley*. Entries close July 31. Secretary, Mr. W. Hitchon, Whalley, near Blackburn.

**AUGUST 7.**—Welbeck Tenants' Agricultural Society, at *Welbeck*. Secretary, Mr. Hy. Wm. Woods, Clipstone Park Farm, Mansfield.

**AUGUST 8.**—Bishop Auckland Agricultural Society. Entries close July 31. Secretary, Mr. David Armstrong, Bishop Auckland.

**AUGUST 9.**—Cumberland Agricultural Society, at *Carlisle*. Entries close July 25. Secretary, Mr. William Wood, 1, Lonsdale Street, Carlisle.

**AUGUST 14.**—Central Banffshire Farmers' Club, at *Keith*. Entries close July 21. Secretary, Mr. George Donald, Ladyhill, Grange, N.B.

**AUGUST 14.**—Padiham Agricultural Society, at *Padiham*. Entries close August 3. Secretary, Mr. R. T. Whitehead, 48, Burnley Road, Padiham.

**AUGUST 15.**—Beamish, Pontop, and Consett Agricultural Society, at *Stanley*, near Shield Row Station, N.E.R. Entries close August 1. Secretary, Mr. Alexander Atkinson, Causey Arch, Marley Hill, Swalwell, R.S.O.

**AUGUST 18.**—Chorley and District Agricultural Society, at *Chorley*. Entries close August 11. Secretary, Mr. Peter Hodgkinson, Town Hall Sale Rooms, Chorley.

**AUGUST 21.**—Barnsley Agricultural and Horticultural Society, at Queen's Grounds, *Barnsley*. Entries close August 8. Secretary, Mr. Arthur R. Kell, Harvey Institute, Barnsley.

**AUGUST 23** (probably).—United Counties Hunters' Society, at *Carmarthen*. Entries close August 10 (probably). Secretary, Colonel Lewes, Llysnewydd, Llanydasil, South Wales.

**AUGUST 25.**—Worsley and District Agricultural and Horticultural Society, at The Park, *Worsley*. Entries close August 13. Secretary, Mr. W. B. Upjohn, Worsley, Manchester.

**AUGUST 28, 29, 30 and 31.**—Royal Dublin Society, at Balls Bridge, *Dublin*. Entries close July 26. Secretary, Mr. R. J. Moss, Leinster House, Dublin.

**AUGUST 28.**—Llanelly Agricultural Society, at *Llanelly*, Carmarthenshire. Entries close August 14. Secretary, Mr. W. Buckley Roderick, Fronheulog, Llanelly.

**AUGUST 29.**—Cheshire Agricultural Society, at *Nantwich*. Entries close August 8. Secretary, Mr. Thomas A. Beckett, St. Werburgh's Chambers, Chester.

**AUGUST 29.**—North East Somerset Farmers' Club, at *Midsomer Norton*. Entries close August 4. Secretary, Mr. John Tudball, Chew Magna, near Bristol.

**AUGUST 29.**—Royal Jersey Agricultural and Horticultural Society, at *St. Heliers*, Jersey. Entries close August 18. Secretary, Mr. Chas. L. H. Le Cornu, La Hague Manor, Jersey.

**AUGUST 29 and 30.**—Staffordshire Agricultural Society, at *Stons*. Entries close July 21. Secretaries, Messrs. Smellie and Jones, Newcastle, Staffs.

**AUGUST 30.**—Penrith Agricultural Society, at *Penrith*. Entries close August 21. Secretary, Mr. John Thornborrow, St. Andrew's Churchyard, Penrith.

**AUGUST 30.**—Abergavenny Horse Show and Agricultural Association, at *Abergavenny*. Entries close August 21. Secretaries, Messrs. James Straker and Son, Tiverton Place, Abergavenny.

**AUGUST 30.**—Bakewell Farmers' Club, at *Bakewell*. Entries close August 20. Secretary, Mr. W. Smith, Bakewell.

**AUGUST .**—Lancaster Agricultural Society, at *Lancaster*. Secretary, Mr. William Bainbridge, New Street, Lancaster.

## SEPTEMBER.

**SEPTEMBER 4.**—Evercreech and Mid-Somerset Agricultural Association, at *Shepton Mallet*. Entries close August 17. Secretary, Mr. Richard Moody, Evercreech, Bath.

**SEPTEMBER 4.**—Hawkshead Agricultural Society. Entries close October 20. Secretary, Mr. W. A. Rushforth, Esthwaite Hall, Hawkshead, Ambleside.

**SEPTEMBER 4.**—Bicester Agricultural and Horticultural Association, at *Bicester*. Entries close August 24. Secretary, Mr. Edwin F. Holt, Bicester, Oxon.

**SEPTEMBER 4.**—Leominster Agricultural Society, at *Leominster*. Entries close August 17. Secretaries, Messrs. A. and D. Edwards, Corn Exchange Chambers, Leominster.

**SEPTEMBER 4.**—Greasley, Selston, and Eastwood Agricultural and Horticultural Society, at *Moorgreen*, near Nottingham. Entries close August 29; open classes, August 31. Secretary, Mr. W. H. Attenborough, Watnall.

**SEPTEMBER 4 and 5.**—Warwickshire Agricultural Society, at *Coventry*. Secretary, Mr. Frederick H. Moore, Warwick.

**SEPTEMBER 5.**—Wolsingham and Wear Valley Agricultural Society, at *Wolsingham*. Entries close August 25. Secretary, Mr. R. E. Stobbs, Angate Street, Wolsingham, near Darlington.

**SEPTEMBER 5.**—Winslow Stud Shire Horse Society, at *Winslow*. Hon. Secretary, Mr. C. Colgrove, Swanbourne, Winalow.

**SEPTEMBER 5 and 6.**—Wirral and Birkenhead Agricultural Society, at *Birkenhead*. Secretary, Mr. Arthur H. Edwardson, 28, Hamilton Street, Birkenhead.

**SEPTEMBER 5 and 6.**—Romsey and South Hants Horse and Poultry, at *Romsey*. Entries close August 15. Secretary, Mr. B. Chignell, Church Street, Romsey.

**SEPTEMBER 5 and 6.**—Bath Horse Show, at *Bath*. Secretary, Mr. Lewis C. Mundy, 16, Milsom Street, Bath.

**SEPTEMBER 11.**—Newbury Horse Show, at *Newbury*. Entries close August 22. Secretary, Mr. J. H. Wilson, Broadway, Newbury.

**SEPTEMBER 11.**—Cartmel Agricultural Society, at *Cartmel*. Entries close August 31. Secretary, Mr. Wm. Cragg, Tanley Cottage, Cartmel.

**SEPTEMBER 12.**—Alfreton Agricultural Society, at *Alfreton Park*. Entries close September 1. Secretary, Mr. Edw. S. Cutts, Hagg House, Morton, Alfreton.

**SEPTEMBER 12.**—Wardle Agricultural Society, at *Wardle*. Entries close September 8. Secretary, Mr. Edward Howard, Church Terrace, Wardle, near Rochdale.

**SEPTEMBER 12.**—Brecknockshire Agricultural Society, at *Brecon*. Entries close September 3. Secretary, Mr. Rhys Davies, Castle Street, Brecon.

SEPTEMBER 12.—Rugby and Dunchurch Agricultural Association, at *Rugby*. Entries close September 1. Secretary, Mr. Edwin Tait, 2, Albert Street, Rugby.

SEPTEMBER 13.—Heckington and District Foal Show Association, at *Heckington*. Entries close September 8. Secretary, Mr. J. B. Brumfield, Heckington, S.O., Lincs.

SEPTEMBER 13 and 14.—Compton Stud Show, at *Templecombe*. Entries close August 20. Secretary, The Manager, Sandley, Gillingham, Dorset.

SEPTEMBER 16.—Blandford Farmers' Club, at Bryanston Park, *Blandford*. Entries close September 8; post entries, September 17. Secretary, Mr. E. O. Richards, 2, Park Place, Blandford, Dorset.

SEPTEMBER 17.—Gillingham Agricultural Society, at *Gillingham*. Entries close September 10. Secretary, Mr. H. Kaines, Milton, Gillingham.

SEPTEMBER 18.—North Lonsdale, at *Ulverston*. Entries close September 6. Secretary, Mr. Jno. Atkinson, Solicitor, Ulverston.

SEPTEMBER 18.—*Hitchin* Foal Show and Sale. Secretary, Mr. C. Crouch, Kitchen End, Amptill.

SEPTEMBER 19.—Loughborough Agricultural Society, at *Loughborough*. Entries close August 30. Secretary, Mr. T. B. Bosworth, Kibworth, Leicester. Office, 4, High Street, Loughborough.

SEPTEMBER 19.—Kington Horse Show Society, at *Kington*. Entries close September 12. Secretary, Mr. R. W. Satchell, Kington.

SEPTEMBER 20.—Westmoreland and Kendal District Agricultural Society, at *Kendal*. Entries close September 1. Secretaries, Messrs. Hoggarth Bros., Kendal.

SEPTEMBER 20.—Oswestry District Agricultural Society, at *Oswestry*. Entries close September 1. Secretary, Mr. Thos. Whitfield, Willow House, Oswestry.

SEPTEMBER 21.—Brampton Agricultural Society, at *Brampton*, Cumberland. Entries close September 12. Secretary, Mr. Joseph Laidler, North Rigg Hall, Brampton.

SEPTEMBER 21 and 22.—Great Midland Horse Show, at Colwick Park, *Nottingham*. Secretary, Mr. W. Ford, 28, Parliament Street, Nottingham.

SEPTEMBER 26.—Byfield Colt Show, at *Byfield*. Entries close September 20. Secretary, Mr. Sam C. Miller, 22½, High Street, Banbury.

SEPTEMBER 26.—Frome and District Agricultural Society, at *Frome*. Secretary, Mr. Wm. Pulham, Gentle Street, Frome.

SEPTEMBER 27.—Ashbourne Shire Horse Society, at *Ashbourne*. Entries close September 8. Secretary, Mr. G. M. Bond, Alrewas House, Ashbourne, Derby.

SEPTEMBER —.—Wensleydale Longwool Sheep Breeders' Association and Flock Book Society, at *Leyburn*. Secretary, Mr. T. J. Other, Howgrave, Ripon.

#### OCTOBER.

OCTOBER 2.—Dalbeattie Agricultural Society, at *Dalbeattie*. Entries close September 18. Secretary, Mr. R. W. Macnab, Union Bank of Scotland, Dalbeattie.

OCTOBER 3.—Royal South Bucks Agricultural Association, at *Slough*. Entries close: Cultivators and root crops, July 1; pulled roots and horses, August 25. Secretary, Mr. R. H. Barrett, Slough, Bucks.

OCTOBER 4.—Royal Berks Agricultural Association, at *Maidenhead*. Entries close June 31. Secretary, Mr. J. Herbert Humfrey, Maidenhead.

OCTOBER 9, 10, 11 and 12.—British Dairy Farmers' Association, at Royal Agricultural Hall, *Islington, N.* Entries close September 9. Secretary, Mr. William C. Young, 191, Fleet Street, E.C.

OCTOBER 10.—Chertsey Agricultural Association, at *Chertsey*. Entries close September 20. Secretary, Mr. Thomas J. Rawlings, Cambridge House, Chertsey.

OCTOBER 19.—Ayrshire Agricultural Association, at *Kilmarnock*. Entries close October 5. Secretary, Mr. James McMurtrie, 70, Newmarket Street, Ayr.

OCTOBER 23 and 24.—Ashby-de-la-Zouch Shire Horse Show, at *Ashby-de-la-Zouch*. Entries close October 1. Secretaries, Messrs. German and German, Ashby-de-la-Zouch.

#### NOVEMBER.

NOVEMBER 22, 23 and 24.—Norfolk and Norwich Christmas Show Association, at *Norwich*. Entries close October 27. Secretary, Mr. Caleb Barker, Estate Office, Shadwell, Thetford.

NOVEMBER 29 and 30.—Chippenham Agricultural Society, at *Chippenham*. Entries close November 16. Secretary, Mr. Edward Burbidge, Chippenham, Wilts.

#### DECEMBER.

DECEMBER 1, 3, 4, 5 and 6.—Birmingham Cattle and Poultry Show, at *Bingley Hall, Birmingham*. Entries close: Implements, October 20; stock, &c., November 1. Secretary, Mr. W. H. Lythall, Bingley Hall, Birmingham.

DECEMBER 4, 5 and 6.—Yorkshire Fat Stock Society, at *York*. Entries close November 15. Secretary, Mr. Fred Arey, 3, New Street, York.

DECEMBER 10 to 14.—Smithfield Club, at Royal Agricultural Hall, *Islington, N.* Entries close: Implements, October 1 (extra fees, October 5); stock, November 1 (extra fees, November 5). Secretary, Mr. E. J. Powell, 12, Hanover Square, London, W.

DECEMBER 11, 12 and 13.—Leeds Smithfield Club, at *Leeds*. Entries close November 30. Secretary, Mr. J. H. Clark, 31, Albion Street, Leeds.

DECEMBER 12.—Vale of Aylesbury Fat Stock Show, at *Aylesbury*. Secretary, Mr. F. J. Brown, Auctioneer, Aylesbury.

DECEMBER 13 and 14.—West of England Fat Cattle and Poultry Show, at *Plymouth*. Secretary, Mr. D. E. Long, 14, Valletort Place, Devonport.

DECEMBER 14 and 15.—Canterbury Cattle Show, at Agricultural Hall, *Canterbury*. Entries close November 17. Secretary, Mr. George Slater, The Horse Repository, Canterbury.

A  
RECORD OF PRIZES

Taken during the Year

1893,



*A Champion Head, by a "Black and White" Artist.*

For Horses, Cattle, Sheep & Pigs, by leading Exhibitors,

Specially Compiled for "THE COUNTRY GENTLEMEN'S CATALOGUE," 1894.

## A RECORD FOR 1893

*Of PRIZES taken for HORSES, CATTLE, SHEEP and PIGS at leading Shows.*

In order to make this Record thoroughly authentic and reliable, we have thought it best to obtain our information, as far as possible, direct from the Prize-takers. In consequence of the pressure of time we have been compelled to publish before all the returns have come in, so that the Records of several Exhibitors do not appear. This will not happen again, and in future volumes of "THE COUNTRY GENTLEMEN'S CATALOGUE" this feature will not only be considerably enlarged, but will be more fully illustrated with portraits of prize-taking animals.



HER MAJESTY THE QUEEN.

Prince Consort's Shaw Farm, and Flemish Farm, Windsor.

### CATTLE.

#### SHORTHORNS.—

Bull "*Fairfax*" (60792) calved January 5th, 1890, Reserve Number and Highly Commended, Royal Show, Chester; 2nd prize, £10, Highland Show.

Bull "*Red Rover*" (63192), calved June 1st, 1891, 3rd prize, £5, Royal Show, Chester.

Heifer "*Bouquet*" (Vol. xxviii., page 201), calved April 12th, 1891, Reserve Number and Highly Commended, Royal Show, Chester; 2nd prize, £5, Highland Show.

Heifer "*Rhoda*" (Vol. xxviii., page 204), calved April 12th, 1891, Highly Commended, Chester; 2nd prize, £10, Bingley Hall; 2nd prize, £10, Smithfield.

Heifer "*Nosegay*" (Vol. xxix.), calved May 4th, 1892, Commended, Royal Show, Chester; Very Highly Commended, Highland Show.

Steer, Sire "*Cræsus*" (58706), Dam "*Julia*," 1st prize, £15, Bingley Hall; Reserve Number and Highly Commended, Smithfield.

Steer "*Masterpiece*," Sire "*Paymaster*" (59590), Dam "*Cherry*," 1st prize, £15 and Reserve Number, Bingley Hall; 1st prize, £25, Smithfield.

Steer "*Prince Charlie*," Sire "*Field Marshal*" (47670), Dam "*Stratton*," 1st prize, £25, Smithfield.

#### DEVONS.—

Cow "*Buttercup*" (9947), calved June 8th, 1888, Reserve Number and Highly Commended, Chester; 1st prize, £15, Smithfield.

Heifer "*Dahlia*" (Vol. xvi.), calved January 16th, 1892, Reserve Number and Highly Commended, Chester.

Heifer "*Poppy*" (Vol. xvi.), calved June 15th, 1891, 2nd prize, £5, Chester.

#### DEVONS—Continued.

Heifer "*Gem*," 1st prize, £10, Bingley Hall; 1st prize, £20, Smithfield.

Steer, Sire "*Sir John*" (2493), Dam "*Buttercup*," 1st prize, £10 10s. and extra prize, £25 in plate, Bingley Hall; 2nd prize, £15, Smithfield.

Steer, Sire "*Sir John*," Dam "*Fancy 5th*" (5293), Reserve Number Bingley Hall; 4th prize, £7, Smithfield.

Steer, Sire "*Penny-come-quick*" (2656), Dam "*Actress 30th*," 1st prize, £10, Bingley Hall.

Steer, Sire "*Marmaduke*" (2280), Dam "*Homely*" (8320), 3rd prize, £10, Smithfield.

Steer, Sire "*Master Frank*" (1800), Dam "*Cherry 4th*" (9204), 2nd prize, £15, Smithfield.

#### HEREFORDS.—

Heifer "*Fearl*," Sire "*Luminary*" (13951), Dam "*Pet*," calved April 30th, 1891, 3rd prize, £5, Royal Show, Chester; 1st prize, £15, Bingley Hall; 1st prize, £20, Smithfield.

Heifer "*Patricia*" (Vol. xxiv.), Sire "*Luminary*," Dam "*Pansy*," calved January 6th, 1893, Commended, Royal Show, Chester.

Steer "*King Robert*," Sire "*Bruce*" (13646), Dam "*Phillis*," 2nd prize, £10 and Reserve Number, Bingley Hall; 2nd prize, £15, Smithfield.

#### ABERDEEN ANGUS.—

Cow "*Miss Pretty*" (12313), calved April 30th, 1886, bred by Colonel Ferguson, Pitfour, Mintlaw, N.B., 2nd prize, Royal Show, Chester.





## HIS ROYAL HIGHNESS THE PRINCE OF WALES, K.G., SANDRINGHAM.

### HORSES.

#### SHIRE—

Filly "*Bury Countess*" (16353), bred by Lord Dysart's Trustees, foaled 1890, 3rd prize, London Shire Horse Show; 1st prize, Peterborough; 1st prize, Cup for best Mare or Filly in Show, and Gold Medal, Norfolk County Show; 2nd prize, Tring Show.

Filly "*Lady Godiva III.*," bred by H.R.H. The Prince of Wales, foaled 1891, 1st prize, Tring Show.

#### SHIRE—Continued.

Filly "*Gleam*," bred by H.R.H. The Prince of Wales, foaled 1892, 3rd prize, Tring.

Colt "*Ursa Minor*" (14389), bred by Mr. Punoard, Totnes, Devon, foaled 1891, 1st prize, Lynn Show.

### CATTLE.

#### SHORTHORN—

Bull "*Kirklevington's Lad*" (64236), bred by H.R.H. The Prince of Wales, calved October 3rd, 1892, 2nd prize, and Cup for best Bull bred in County, Norfolk Show.

Cow "*Stella*," bred by owner, calved October 5th, 1888, 1st prize, Smithfield.

Steer, Sire "*Thorndale Duke of York*" (60063), Dam "*Kingscote Kirknaple*," bred by owner, calved February 3rd, 1892, 1st prize, Norwich Christmas Show.

Steer, Sire "*Sailor Lad*" (59871), Dam "*Florist*," bred by owner, calved March 10th, 1892, 2nd prize, Norwich Christmas Show.

#### DEXTER KERRY—

Heifer, Sire "*Moonlighter*," calved March, 1891, 1st prize, Norwich Christmas Show; 1st prize, Smithfield, also Cup for best Dexter Kerry or small breed of Cattle at the Smithfield Show.

#### CROSS-BRED—

Heifer, Sire "*Lord Broughton*" (56029), Dam, Black-poll Cow, bred by H.R.H. The Prince of Wales, calved February 19th, 1891, 1st prize and Cup for best animal bred in Norfolk, Norwich Christmas Show; 2nd prize at Norwich Summer Show.

### SHEEP.

#### SOUTHDOWN—

First prize for Shearling Ewes, and 1st prize for Ram Lambs, at the Royal Show, Chester.

Champion for Ram of any breed. Champion prize for best Southdown Ram. Champion prize for best pen of Ewes. First prizes for Shearling Ram and Shearling Ewes. Third prize for Ram Lambs. Special prize for group of Southdown Sheep. Awarded at the Royal Counties Show, Southampton.

#### SOUTHDOWN—Continued.

First Prize for Southdown Ewes, at the Norwich Christmas Show.

First prize for Southdown Wethers, at the Birmingham Show.

Cup for best pen of Southdowns; 1st prize for Wethers; 1st prize for Ewes; 2nd prize for Lambs, at the Smithfield Show.

#### ADAMS, GEORGE, Royal Prize Farm, Piddell, Farringdon.

SHEEP—Oxford Down. Bred by owner; Ram Lambs, 2nd £3, and Champion, £6 6s., Bicester; 3rd, £2, Bath and West; 1st, £10, Royal Counties. Ewe Lambs, 1st and Champion, £5, Bicester; 1st, £5, Abingdon. Shearling Rams, 1st, £10, and 2nd, £5, Royal Counties. Theves, 2nd, £3, Bicester; 2nd, £5, and 3rd, £2, Bath and West; 1st, £10, Royal Counties; 2nd, £10, Royal Chester. Group, 1st, £5, Bicester. At the World's Fair, Chicago, the following prizes were taken—two 1st, three 2nd, two 3rd, and three 4th.

#### ADDIE, W. FORRESTER, Powis Castle Park, Welshpool.

HORSES—Hackney. Mare "*Rustie*" (3797), bred by Francis Cook, Nab Farm, Timber Station, Yorks., aged 8 years; 2nd, £5, Shropshire and West Midland; 1st and 3rd, £8 10s., Welshpool. Mare "*Lady Poll*" (906), bred by John Morris, Lymystyn Hall, Cann Office, aged; 2nd, £1, and H. C. Oswestry; 2nd, £1, Welshpool. Mare "*Scorcher*" (Vol. st.), bred by Geo. Reader, Truman Cottage, Scanton Brough, Yorks., 1 year; 1st, £7, Shropshire and West Midland; 1st, £3, Welshpool. Colt (Vol. st.), bred by owner, April 26th, 1893; 2nd, £3, Welshpool.

#### AGATE, ALFRED, Grandford House, Horsham.

CATTLE—Sussex. Steer, under 4 years, bred by the Aylesbury Dairy Company, Sire "*Lord Ozeys*" (964), Dam "*Galatea II*" (4238); 1st, £25, and Breed Cup, £25, Smithfield. Steer, under 3 years, bred by owner, Sire "*Sir John*" (861), Dam "*Bet*"; 1st, £25, Smithfield; 1st, Redhill; 2nd, against all breeds, and Silver Cup, for best Sussex, Horsham.

#### ALEXANDER, MAJOR J., Milford, Co. Carlow.

CATTLE—Shorthorn. Bull "*Lord Island Kirklevington IV.*," bred by Claud de Lacy, The Island, Waterford, April, 1892; 2nd, £5 and Government Premium, Dublin.

#### ALGIE, ALLAN K., Togher House, Hollymount, Co. Mayo.

CATTLE—Shorthorn Crosses. Steers, bred by owner, 1891; 1st, £5, Special £5, and 2nd, £3, Royal Dublin. Steer, bred by Very Rev. Provost Treanor, 1890; 1st, £5, Royal Dublin. Heifer, bred by exhibitor, 1891; 1st, £5, Royal Dublin.

HORSES—Hunter. Brood Mare "*Bonny Mary*," 3rd, £3, Hollymount.

**AMHERST OF HACKNEY, Lord, Dillington Hall, Brandon.**

**CATTLE**—Red Polled. Bull "Red Skirt" (2016), bred by T. Fulcher, Elmham, calved May 28th, 1890; 1st, £10, Norwich. Bred by owner: Cow "Saltarella" (5710), calved July 23rd, 1888; 1st, £7, Suffolk; 2nd, £10 and R., for Champion, Royal Chester; H. C. and R., Norwich. Cow "Poppety II." (4249), calved February 22nd, 1887; 1st, £10, Norwich. Heifer "Saltarella III." (6730), calved October 25th, 1890; R. No., Royal Chester; 2nd, £3, Suffolk; 2nd, £5, Norwich; 1st, Wotton. Heifer "Rosetti" (7477), calved January 9th, 1891; 3rd, £3, Suffolk; R. No., Royal Chester.

**ARKWRIGHT, JOHN H., Hampton Court, Leominster.**

**CATTLE**—Hereford. Bull "Rose Cross 2nd" (14865), bred by owner, January 21st, 1889; 1st, Bath and West; 1st and Champion, Herefordshire; 1st, Royal; 1st, Shropshire and West Midland; 1st and two Champions, Glamorganshire; 1st and Champion, Lord Tredegar's Show. Bull "Happy Hampton" (16097), bred by owner, January 22nd, 1891; 2nd, Oxfordshire; 2nd, Bath and West; 1st, Herefordshire; 2nd, Royal; 2nd, Shropshire and West Midland. Bull "Pearl Cross" (16882), bred by owner, February 9th, 1892; 1st, Oxfordshire; 3rd, Herefordshire; 3rd, Royal; 3rd Shropshire and West Midland. Bull "Good Cross" (14569), bred by owner, January 24th, 1889; 1st and Par Challenge Cup, Royal Cornwall. Bull "Buckingham" (16576), bred by owner, March 2nd, 1892; 1st, Hereford Breeders. Heifer "Pearl 11th" (Vol. xiv., p. 160), bred by owner, February 1st, 1892; 1st, Oxfordshire; 2nd, Bath and West. Steers, pair of, calved, 1890; 1st, Silver Cup, Bromyard Fat Stock. Steer, calved, 1890; Champion, Bromyard. Heifers, pair of, calved, 1890; 1st, Bromyard.

**BALFOUR, The Rt. Hon. A. J., M.P., Whittinghame, Prestonkirk, N.B.**

**SHEEP**—Border Leicester. Ram "Dublin Royal," bred by owner, lambd March, 1889; 1st, £10, Royal Chester. Ram "Son of Mertoun," bred by owner, lambd March, 1891; 2nd, £5, Royal Chester and 2nd, £5, Highland. Ram "Mertoun," bred by Lord Polwath, Mertoun, St. Boswell's, lambd 1889; 3rd, £3, Highland; 1st, £2, Haddington. Shearling Ram "Chester Royal," bred by owner; 1st, £10, Royal Chester; 1st, £8 and Cup, Haddington. Shearling Ram "Sprightly," 2nd, £5, Royal Chester. Shearling Ewes (three); 1st, £10, Royal Chester; 1st, £8, Highland; 1st and Special, £5, Haddington. Shearling Ewes (three); 2nd, £5, Royal Chester. Two-Shear Ewes (three); 1st, £8, Highland; 1st, £1, Haddington. Ram Lambs, (five); 1st and Special, £5, Haddington. Total £90.

**BARNES, CHARLES A., Solesbridge, Chorleywood, Herts.**

**PIGS**—Berkshire. Boar "Duke George" (4259), August 21st, 1892; 1st, Royal Counties; 2nd, Bicester. Sow "Duchess XXXVI." (4252), February 7th, 1892; 1st, Royal Counties; 1st and Champion, Chesham; 2nd, Bicester and R. H. C., Royal Chester. Sow "Duchess XXXIX." (4254), February 22nd, 1892; 3rd, Herts. Boar "Duke of Wellington," January 31st, 1893; 2nd, Herts; 3rd, Chesham.

**BARNES, WILLIAM A., Haslucks Green Farm, Shirley, Birmingham.**

**PIGS**—Berkshire. Boar "Harold Augustus III." March, 1893; 1st, £4, Warwickshire. Boar "Wotton," 2nd, £2, Warwickshire. Sows and Pigs; two 1st, £8; two 2nd, £4, Warwickshire; 2nd, £5 and 3rd, £2, Bingley Hall.

**BAKENDALE, SALISBURY, Bonningtons, Ware, Herts.**

**CATTLE**—Jersey. Cow "Gorse" (J. H. B.), March 24th, 1888; 1st, £3 and Gold Medal, Butter Test, Royal Counties. Heifer "Tamarisk" (Reg. No. 8, p. 20), August 24th, 1891; V. H. C., Royal Counties; H. C., Royal Chester; R. & H. C., Norfolk; R. and V. H. C., Essex; H. C., Essex. Heifer "Berberis III," March 26th, 1892; H. C., Royal Counties. Heifer "Anemone," June 27th, 1892; H. C., Essex. Cow "Chestnut II." (J. H. B., Vol. v., p. 244), March 27th, 1887; Royal Chester, R. Butter Test, 1st, £20 and Gold Medal, Butter Test, Tring; Dairy Show, 1st, £10; 1st, £3 and Gold Medal, Dairy Test, and Lord Mayor's Cup for best in Show. Cow "Bella" (Reg. No. 8, p. 20), May 15th, 1889; 2nd, £4, Dairy Test, Norfolk; 3rd, £1 and R. No., Herts; 3rd, £10, Milk Test; and Certificate, Butter Test, Tring. Heifer "Tea" (J. H. B., Reg. No. 8, p. 20), October 25th, 1890; 2nd, £3, Herts; 1st, £5 and Silver Medal, Dairy Show. Shorthorn.—Bull "Prince of Henam II.," 1892; R. Essex. Cow "Bess," 1886; 2nd, £5, Essex; 3rd, £10, Butter Test, Tring. Cow "Pretty Face," 1885; 3rd, £3, Essex. Cow "Ada," 1890; 2nd, £5, Essex. Cow "Rose," 1887, 1st, £3, Norfolk. Cow "Semolina," 3rd, £3, Milking Trials, H. C., Ring and R. Butter Test, Dairy Show.

**HORSES**—Shire. Filly "Sally," February 19th, 1891; 1st, £10, Essex; 3rd, £2, Tring; 1st, £10, Norfolk. Mare and Foal "Polly" (Vol. vi., p. 339), April 2nd, 1892; 2nd, £5, Essex; Mare 2nd, £5, Essex; Foal 1st, £5, Essex.

**BEAN, GEORGE, Balgahain Main, Ptolepie, Aberdeenshire.**

**HORSES**—Clydesdale. Stallions "Mount Royal" (8065), bred by David Mitchell, Westmill, Markinch, May 18th, 1888; Premium, Kiriemuir; 2nd, Glasgow. "Fairfax Royal" (7703), bred by owner,

July 10th, 1888; 2nd, Inverness. "Gairloch" (8632), May 24th, 1889; 2nd, Aberdeen Spring Show; 3rd, Summer Show. "Prince Baldwin" (9359), bred by John Tait, Inverurie, May 14th, 1890; Premium, Kiriemuir; 1st and Special, Aberdeen; 3rd, Highland. Entire Colts "Lord Rosslyn" (Vol. xvi.), bred by owner, July 4th, 1891; 2nd, Aberdeen Spring Show; V. H. C. and R. No., Aberdeen Summer Show; 2nd, Inverurie; 1st and Special, Turfiff. "Royal Gairly," Sire "Mount Royal," May 7th, 1892; 1st and Gold Medal, Glasgow. "Royal Charter," Sire "Mount Royal," May 12th, 1892; 1st, Turfiff; 1st, Inverurie; 3rd, Turfiff Spring Show. "Royal Laddie," Sire "Mount Royal," April 24th, 1892; 2nd, Turfiff. Mares "Griselda" (10391), bred by John Abel, Leylodge, Kintore, May 25th, 1886; 4th, Turfiff; 5th, Inverurie. "Merry Maid" (10393), bred by owner, June 1st, 1887; 4th, Inverurie. "Sunflower" (11211), bred by John Adair, Springbank, Stranraer, N.B., June 2nd, 1888; 1st; Highland Society's Medal for best Mare and Foal; Special, as one of best pair above 2 years; Special, best Mare and two Fillies, Inverurie; H. C. and R. N., Aberdeen; 2nd, Turfiff; 2nd, Insch. "Glow" (Vol. xvi.), bred by owner, May 24th, 1889; 2nd, Inverurie; 3rd, Aberdeen; 1st, Turfiff; 1st, Insch. Fillies "Golden Queen," bred by owner, July 28th, 1890; 1st; Special, as best Filly; Special, as one of best pair; Special, as one of best Mare and two Fillies; Silver Medal and Challenge Cup, as best animal in Horse Classes, Inverurie; 1st and Champion, Turfiff; 1st, Insch; 3rd, Aberdeen. "Bonnie Doon," bred by John Tait, April 26th, 1892; 1st, Turfiff; 7th, Glasgow. "Marie Rosie," May 4th, 1892; 1st, Turfiff. Filly Foal, Sire "Mount Royal," 1st, Inverurie and Special.

**BELPER, Lord, Kingston Hall, Nottinghamshire.**

**HORSES**—Shire. Mare "Windly Lilley," bred by —, Burrowes, Esq., Windly Hall, Derby, foaled 1892; 1st, £4, Newark; 1st, £7, Nottingham; 3rd, £5, Leicester; 2nd, £10, Royal Chester; 1st, £5, Chesterfield; 2nd, £3, Derby; 1st, £6, Belper; 1st, £5, Kingston. Mare "Bon Bon," bred by Mrs. Grammar, Sawley, Derby, foaled 1892; 2nd, £2, Newark. Mare "Playmate," foaled 1887; 3rd, £2, Nottingham; 2nd, £10, Islington. Horse "Balfie," bred by owner, foaled 1893; 2nd, £3, Nottingham; 2nd, £2, Leicester. Mare "Beryl," bred by owner, foaled 1893; 3rd, £2, Nottingham; 1st, £4, Chesterfield; 1st, £4, Kingston; 1st, £6, Oakham; 2nd, £5, Nottingham; 2nd, £3, Belper. Mare "Beehive," bred by owner, foaled 1893; 6th, £1, Chesterfield. Mare "Ruby," bred by —, Neville, Esq., Skellingthorpe Hall, Lincolnshire, foaled, 1890; 3rd, £4, Chesterfield. Mare "Butterfly," bred by owner, foaled 1892; 6th, £1, Chesterfield; 1st, £8, Oakham. Horse "Rokeby Harold," bred by A. G. Rogers, Esq., Prebend House, Buckingham, foaled 1892; 1st, £15; Champion in Classes 4, 5 and 6; Cup, value £10 10s.; Champion of Show, Cup, value £52 10s.; Gold Medal, value £15 15s., and Society's Challenge Cup, value 100 Guineaes, Islington. 1st, £20, and Gold Medal, value £15 15s., Royal Chester.

**BENCH, JOHN, Foggy Farsa, West Hartlepool.**

**HORSES**—Hunter. Filly "Ruby," bred by Miss King, Cu'worth, Barnbury, 1890; 1st, £15, Islington; 1st, £15, Royal Chester; 1st, £10, Northumberland; 1st, £5, Durham; 1st, £4, Darlington; 1st, £2, Sedgefield; 1st, £2, Whitby; 1st, £2, Northallerton; 1st, £2, Cleveland; 2nd, £10, Yorkshire; 1st, £1, Stokesley. Filly "Sweetheart," bred by —, Scott, Boroughbridge, 1891; 1st, £15, Islington; 1st, £5, Durham; 1st, £5, Darlington; 1st, £2, Whitby; 2nd, £5, Northumberland.

**BENJAMIN, NATHANIEL, Motcombe, Shaftesbury.**

**HORSES**—Hunter. Filly "Ruddity," bred by owner, 1891; 2nd and Medal, Compton. Filly (unnamed), 1892; 1st, £10, Sherborne. Cob-Filly "Clear the Way," foaled 1892; 1st, Medal, Compton.

**CATTLE**—Shorthorn. Bull "Lord Shaftesbury" (64359), bred by owner, calved April 19th, 1892; 1st, £3, Blandford; 1st, £2, Shaftesbury; 2nd, £2, Gillingham. Two Cows, calved 1889; 2nd, £2, Shaftesbury and 2nd, £2, for Cow and Calf.

**PIGS**—Berkshire. Sow "Adele" (4222), born February 1st, 1888; 1st, £5, Newport; 1st, £2, Gillingham; 2nd, £1, Dorchester; 2nd, £1, Blandford. Boar "Marmaluke" (4059), bred by T. H. Atkins, Birmingham, born January 3rd, 1892; 1st, £5, Newport; 1st, £2, Shaftesbury; 1st, £2, Blandford; 1st, £2, Dorchester; 2nd, £1, Gillingham. For other Pigs, bred by owner; 1st, £10, Birmingham; 1st, £5, Newport; 1st, £2, Chippenham; 1st, £2, Dorchester; 1st, £2, Shaftesbury; 2nd, £1, Brandford and 2nd, £5, Smithfield.

**BOLTON, WILLIAM P., The Cedars, Kingstown.**

**CATTLE**—Jersey. Bull "Jester," bred by William Amy, St. Peter's, Jersey, January 16th, 1890; 3rd, Bray.

**PIGS**—Berkshire. Sow "Peggie Cedar" (4992), bred by owner, August, 1891; 1st, £5, Dublin. Three fat Pigs, born October, 1892; 1st, £2, Dublin.

**BOYLAN, THOMAS, Hilltown, Drogheda.**

**CATTLE**—Hereford. Cow "Winne" (Vol. xiv., p. 216), bred by owner, May, 1887; 1st, £3, Dublin. Bull "Prince of Wales" (16586), bred by J. Price, Court House, Pembroke, April, 1890; H. C. & R., Dublin.

**BRAND, Captain The Hon. T. R. S., R.M., Glynda, Lewes.**

**CATTLE**—Jersey. Bull "*Spartan*" (4386), bred by J. Pallot, Trinity, Jersey, calved April 1st, 1891; 2nd, £2, East Sussex; C. Royal Chester. Heifer "*Jolly Maid II*," bred by W. Alexander, St. Mary's, Jersey, calved June 7th, 1891; 3rd, £1 10s., East Sussex. Heifer "*Blossom*," bred by the late Viscount Hampden, November 14th, 1892; 2nd, £2, Tunbridge Wells. Bull "*Brelades Boy*," bred by owner, calved April 3rd, 1892; C. Royal Chester. Cow "*Thistle*"; R. No., Tunbridge Wells.

**SHEEP**—Southdown. Bred by owner. Ewes; 2nd, £4, East Sussex. Ewe Lambs; 1st, £5, East Sussex.

**BRASSEY, ALBERT, Haythorp Park, Chipping Norton.**

**SHEEP**—Oxford Down. Shearling Ram; 1st, £7; 2nd, £3; 3rd, £1. Ram Lambs; 1st, £5. Ewe Lambs; 2nd, £3 and 3rd, £1. Shearling Ewes; 1st, £5. Ewes and Lambs; 1st, £10. Ewe Tegs; 1st, £5. Champion, for best Ram, £5 and Champion, for best pen of Ewes, £5. Total prizes at Oxfordshire Show, Bicester, £50. Shearling Ram; 1st, £10; 2nd, £5. Ram Lambs; 1st, £10; 2nd, £5. Shearling Ewes; 1st, £10; Champion, for Ram, £10. Total prizes at Bath and West, Gloucester, £50. Two-Shear Ram; 2nd, £5. Shearling Ram; 1st, £15 and £10. Ram Lambs; 1st, £10; 2nd, £5. Shearling Ewes; 1st, £15. Total at Royal Chester, £60. Fat Wether Lambs, born 1893; 1st, £10, Bingley Hall. Three fat Ewes; 1st, £10. Three Lambs; 1st, £15 and 2nd, £10, Smithfield. Total prizes for year, £220.

**BRIDGFORD, Colonel, C.B., Whalley Range, Manchester.**

**CATTLE**—Hereford. Heifer "*Sybil*," calved January 10th, 1890, bred by owner; 2nd, £5. Bath; 2nd, £5, Hereford; 2nd, £10, Royal Chester; 2nd, £3, Shropshire. Heifer "*Princess II*," calved April 6th, 1890, bred by owner; 3rd, £3, Hereford.

**BROOKE, G. F. SUMMERTON, Castleknock, Co. Dublin.**

**CATTLE**—Jersey. Cow "*Constantia*," bred by Philip Clews, St. Martin's, Jersey, January 7th, 1896; R. No. and H. C., Dublin. Heifer "*Summerton Lassie*," bred by owner, June 4th, 1891; Commended, Dublin.

**BROOKE, LADY (nee Warwick), Countess of.****BRUNTON, SIDNEY, Frogmore House, St. Albans.**

**PONIES**. Mare "*Surprise*" (*Hackney Stud Book*, Vol. xi), bred by D. Mitchell, Millfield, Polmont, N.B., June 1899; 2nd, £5, Hackney Show; 2nd and 3rd, £10, London (May); 2nd and 3rd, £3, Richmond; 1st, £7, Ranelagh; 1st and 2nd, £10, Essex; two 1st, £10, Peterborough; 1st, £5, Hatfield; 2nd and 3rd, £4, Tring; four 1st, £30, Dublin; 1st, £7, Hastings; 1st, £5, Chesham. Mare "*Belle of the Ball*," foaled 1883; 1st, £10, Essex; three 1st, £14, Tunbridge Wells; 1st, £5, Hatfield; 1st, £5, Tring; 2nd and 3rd, £10, Dublin; 3rd, £2, Hastings; 1st, £5, Chesham; 2nd, £3, Ranelagh. Gelding "*Satie*," foaled 1885; 1st, £4, Tunbridge Wells; 2nd, £3, Hatfield; 1st, £5, Tring; two 1st, £10, Dublin. Gelding "*Cock Robin*," foaled 1886; 1st, £5, Hatfield.

**BUTTERLY, NEWPARK, The Ward, Co. Dublin.**

**HORSES**—Shire. Stallion "*Infant*," bred by J. Talbot Power, Leopardsdown Park, Co. Dublin, foaled June 2nd, 1889; 1st, £20, Royal Dublin.

**BUXTON, T. F., Waters Place, Ware.**

**SHEEP**—Hampshire Down. Bred by owner. Prizes to the value of £108 5s., were taken at Royal Counties, Essex, Norfolk, Leighton, Hatfield, Norwich Fat, and Smithfield, including Champion for Ram at Royal Counties.

**CAMPBELL, C. LEE, Glewstone Court, Ross.**

**HORSES**—Hackney. Mare "*Blossom*," foaled 1889; 3rd, Herefordshire. Hunters. Gelding "*Sceline*," foaled 1889; H. C., Herefordshire; 2nd, Ross. Brood Mare "*Woran*," foaled 1890; 3rd, Ross.

**SHEEP**—Shropshire. Ram "*Glewstone Stockcell*," born 1891, bred by owner; 1st, Kidderminster; H. C., Royal Chester; H. C., Shropshire and West Midland. Ewes; H. C., and R., Kidderminster; 1st, Leominster. Ewe Lambs; 2nd, Leominster; 1st and 2nd, Abergavenny; 1st, Monmouth. Rams; 1st, Leominster; 1st and

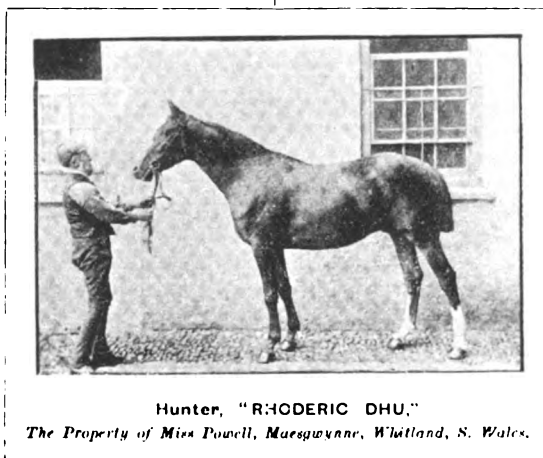
2nd, Abergavenny. Ram Lambs; 2nd, Abergavenny; 1st and 2nd, Monmouth. Stock Ewes; 2nd, Abergavenny; 1st and 2nd, Monmouth. Yearling Ewes; 1st, Monmouth.

**CANNOCK AGRICULTURAL COMPANY, LIMITED, Cannock Staffs.**

**HORSES**—Shire. Stallions "*Cannock Preserver*" (13939), foaled 1891, Sire "*Cannock Nelson*" (12885), Dam "*Countess*" (Vol. vi., p. 219); 3rd, Royal Chester; 1st and Champion, Shropshire and West Midland; 1st, Kettering; 1st, Leicester; 1st, Lichfield; 1st, Derby. "*Cannock Garfield*" (12883), Sire "*King Charming*" (3166), Dam "*Darling*"; R. and H. C., Royal Chester; 2nd, Lichfield. "*Haunton Prince*" (14081), Sire "*King Charming*," Dam "*Haunton Flower*" (Vol. xiii.); 3rd, Leicester; 2nd, Hereford; 2nd, Solihull; 1st, Kidderminster. "*Cannock Brandon*"; 2nd, Lichfield. "*Hatherton II*" (11571), Sire "*Hatherton*" (4443), Dam "*Flower*"; 1st, Kidderminster; 1st, Newport (Salop.) "*Prince George*"; 2nd, Lichfield. Mare "*Cresswell Blossom*"; 1st, Lichfield. Mare "*Essex Beauty*"; 1st, Lichfield. Filly "*Queen of Cresswell*"; 1st, Shropshire and West Midland; 1st and Champion, Lichfield. Hackney.—Stallion "*Cannock Confidence*"; 1st, Lichfield.

**CAREW, Capt. R. T., Ballinamona Park, Waterford.**

**HORSES**—Hunter. Horse "*Park Boy I.*," bred by owner May, 1889; 1st, £15 and cup, value £25, for light weight, Limerick. "*Park Boy II.*," May, 1889, C. Dublin. "*Park Boy III.*," May, 1889; 1st, £5, Galway. "*Castletown*," May, 1889; 3rd, £2, Ballinasloe. "*Huntsman*," May, 1888, C. Ballinasloe.

**CARLISLE, Countess of, Naworth, Brampton, Cumberland.**

Hunter, "RHODERIC DHU."

The Property of Miss Powell, Maesgwynne, Whittland, S. Wales.

**CATTLE**—Galloway. Cow "*Vanderille of Closeburn*" (8134), bred by F. E. Villiers, Closeburn Hall, Thornhill, calved January 3rd, 1894; 1st, £8, Northumberland; 1st, £3, Tyne-side; 1st, £11 10s. and Silver Medal, Lower Annandale; 1st, £2, Wigton; 1st, £1 10s., South Tyne; 1st, £4, Cumberland; 2nd, £2, Brampton. Cow "*Cecilia II. of Tarbroch*" (11063), bred by James Cunningham, Tarbroch, Dalbeattie, calved February 22nd, 1888; 2nd, £1 10s., Tyne-side; 2nd, 15s., South Tyne. Cow "*Maggie III. of Tarbroch*" (11066), bred by James Cunningham, calved July 1st, 1888; 3rd, £1, Cumberland. Heifer "*Semiramis XXXVII. of Drumlanrig*" (14429), bred by the Duke of Buccleuch, calved March 29th, 1901; 1st, £8, Northumberland; 1st, £2, Tyne-side; 1st, £1 10s., Lower Annandale; 1st, £3, Wigton; 1st, £1, South Tyne; 1st, £3, Cumberland; 1st, £3, Brampton. Heifer "*Lady Constance of Drumlanrig*" (14431), bred by the Duke of Buccleuch, calved April 19th, 1891; 2nd, £4, Northumberland; 2nd, £1, Wigton; 2nd, 10s., South Tyne. Heifer "*Primrose II. of Drumlanrig*" (13928), bred by the Duke of Buccleuch, calved January 16th, 1892; 1st, £1 10s., Lower Annandale; 1st, £1 10s., Wigton; 1st, £1, South Tyne; 2nd, £1, Cumberland; 1st, £2, Brampton. Heifer "*Cecilia III. of Naworth*" (13175), bred by owner, calved February 2nd, 1892; 2nd, 10s., South Tyne. Heifer "*Vanderille IV. of Naworth*" (13173), bred by owner, calved March 8th, 1892; 3rd, 10s., Cumberland. "*Vanderille*," "*Semiramis XXXVII.*" and "*Primrose II.*," won special prize of £5, given by the Countess of Carlisle, for best three Galloways, the property of one exhibitor, at Brampton.

**HORSES**—Clydesdale. Filly "*Laurenceina*," bred by R. Murdoch, Hallsdale, foaled 1890; 2nd, £5, Northumberland; 2nd, £3, Wigton; 3rd, £1, Cumberland. Mare "*Jess of Parkhead*," bred by J. Wright, Parkhead, foaled 1886; 3rd, £1, Wigton; 2nd, £2, Brampton. Foal "*Jessie of Naworth*," bred by owner, foaled 1893; 2nd, £1, and Special, £2, Wigton; Special, £2, Brampton.

**Cecil, Lords A. & L., Orchardmains, Tunbridge.**

**HORSES**—Clydesdales. Stallion "*Crown of Royalty*" (9177), foaled in 1889, bred by Wm. Osler, Kirriemuir, N.B.; 1st, Tunbridge Wells Spring Stallion Show; 1st and Champion, South Eastern Counties; 1st, Great Yorkshire; 1st, Redhill; 2nd, Newbury; 3rd, Royal Counties. Stallion "*Prince Eddie*" (9637), foaled in 1890, bred by Sir John A. Hay, Peebles; 1st, Bath and West; 2nd, South Eastern Counties. Stallion "*Cuifer*," foaled 1891, bred by owners; 1st, Bath and West; 1st, South Eastern Counties; 3rd, Royal Chester; Reserve No., Great Yorkshire. Brood Mare "*Cynthia*" (11252), foaled 1888, bred by owners; 1st, South Eastern Counties; 1st, Great Yorkshire; 1st, Newbury; 2nd, Royal Counties; 3rd,

Royal Chester. Brood Mare "Clara" (11250), foaled 1887, bred by owners; 2nd, South Eastern Counties. "Edith Plantagenet" (16046), foaled 1888, bred by Mr. Houston, Dumbartonshire, N.B.; 2nd, South Eastern Counties; 2nd, in pairs with "Cynthia," Newbury; 3rd, Newbury. "Pride of Auchenoshan," foaled 1890, bred by Mr. McLachlan, Stirlingshire, N.B.; 1st, Bath and West; 2nd, Great Yorkshire; 3rd, Royal Chester; 3rd, South Eastern Counties; Commended, Royal Counties. "Queen Bees," foaled 1890, bred by Mr. Gordon, Dalbeattie, N.B.; 2nd, Bath and West. "Chaplet of Pearls," foaled 1892, bred by owners; 1st, Redhill; Reserve No., South Eastern Counties. "Carlina," foaled 1892, bred by owners; 1st, South Eastern Counties. "Crown Imperial," foaled 1893, bred by owners; 1st, Redhill. "Flower of Kilbride" (11253), foaled 1889, bred by Mr. Arthur Carling; 2nd, Redhill.

**CHICK, JOHN, Compton Valence, Malden Newton.**

**CATTLE**—Devon. Cow "Compton Dolly" (10601), bred by owner, February 26th, 1897; 3rd, 25, Smithfield.

**COVENTRY, Earl of, Croome Court, Worcestershire.**

**CATTLE**—Hereford. Bull "Corydon," born January, 28th, 1891; 1st, 215, Royal Chester; 1st Champion for best Bull, and Champion best Horned Animal, Oxfordshire; 1st, Bath and West; 2nd, Hereford; 1st, Shropshire and West Midland. Bull "Myro," born January 25th, 1893; H. C., Royal Chester. Bull "Rabelais," born January 18th, 1892; C., Royal Chester. Bull "Rexell," born January 10th, 1892; C., Royal Chester; 2nd, Oxfordshire; 2nd, Bath and West; 4th, Hereford. Cow "Rance," born January 21st, 1899; C., Royal Chester; 1st, Oxfordshire; 2nd, Bath and West; 3rd, Shropshire and West Midland; 2nd, Newport. Steer "Miner," aged 2 years 10 months, Sire "Royal Ruler," Dam "Mineralogy," R. No., Bingley Hall. Steer "Laidler," aged 1 year 9 months 3 weeks, Sire "Royal Ruler," Dam "Lula," H. C., Bingley Hall. Steer "Good Lad," under 4 years, Sire "Good Boy" (7664), Dam "Lady Bird," 2nd, Smithfield. Steer "Minona," aged 1 year 7 months, Sire "Senator," Dam "Minerva," C., Bingley Hall; 1st, Smithfield. Heifer "Parash II," born May 2nd, 1891; C., Royal Chester; 2nd, Kidderminster. Heifer "Genera," born April 30th, 1892; H. C., Royal Chester. Heifer "Golden Valley," born March 20th, 1892; C., Royal Chester. Heifer "Rose," born February 8th, 1892; C., Royal Chester; 2nd, Oxfordshire.

**CRADOCK, Major R. W., Derrycallaghan, Roscrea.**

**CATTLE**—Shorthorn. Bull "Royal Fitz Gwynne" (64724), bred by W. Talbot Crosbie, Ardort Abbey, March 29th, 1891; 2nd, 25, Dublin. Cows "Grand Daisy," bred by Major O'Reilly, Knock Abbey, March 15th, 1890; 2nd, 22, North Tipperary. "Rose of Banfurly," bred by Messrs. Lyle, March 15th, 1890; 3rd, North Tipperary. Bull "Bright Daybreak," bred by owner, April 1st, 1898; 2nd, North Tipperary.

**SHEEP**—Shropshire. Ram, 1892; 1st, 22; 2nd, 21. Ewes; two, 1st, North Tipperary.

**CRISP, FRED., White House Stud Farm, New Southgate, N.**

**HORSES**—Shire. Stallion "Somersham Hatherston," bred by F. Street, Somersham Park, St. Ives, 1892; H. C. Chester; 2nd, Peterborough; 1st, Chatteris; 2nd, Hatfield; 2nd, Yorkshire. Filly "Bury Frolic," bred by John Rowell, Bury, Huntingdon, 1890; 2nd, Oxfordshire; 1st, and R. for Champion, Needham Market; 2nd, Chatteris. Filly "Southgate Black Ben" (15673), bred by H. Smith, The Grove, Cropwell Butler, 1891; 1st, Chatteris. Filly "Scarsdale Marrow," bred by William Arkwright, Sutton Scarsdale, Chesterfield, 1892; 2nd, Bicester; H. C., Royal; 3rd, London. Entire Colt "Southgate William," 1st, Suffolk; 1st, Tring. "Southgate Red Rose," 3rd, Waltham Cross. "Scarsdale Sparkle," 3rd, London; 1st, and R. for Champion, Bicester; 2nd, Peterborough; 2nd, and R. for Champion, and Gold Medal, Chatteris; 1st (as one of a pair), Hatfield. "Rose of Devon," 2nd, Gold Medal and Reserve for Challenge Cup, and Champion Cup, London; 2nd (as one of a pair) and 3rd, Peterborough; 1st, Champion and Gold Medal, Chatteris; 1st, and 1st (as one of a pair), Champion Prize and Challenge Cup, Hatfield.

**CATTLE**—Polled Angus. Bull "Gilderoy" (Vol. xvi.), calved March, 2nd, 1891, bred by Sir Geo. Macpherson Grant, Bart.; 1st, and Reserve for Champion, Royal Dublin; 1st, Essex; 2nd, Royal Chester; 1st, and Champion Cup, Peterborough; 3rd, Great Yorkshire. Cow "Rose the IV.," 2nd, Essex; 2nd, Peterborough; 1st, Hatfield.

**CROSS, ALEXANDER, Knockdon Farm, Maybole, N.B.**

**CATTLE**—Ayrshire. Cow "Bright Lady" (6774), bred by owner, March 16th, 1890; 1st, 215; 1st, three-year-old, 25; 1st (one of a pair), 25; 1st (one of five), 25, Ayrshire. Cow "Derby Polly" (6771), bred by owner, April 16th, 1890; 1st (one of a pair), 25; 1st (one of five), 25; 4th, 25, Ayrshire. Cow "Briehane" (6394), bred by owner, February 12th, 1899; 1st, 25, Ayrshire. Cow "Primrose VIII" (6401), bred by owner, March 10th, 1898; 2nd, 27, Highland. Cow "Beauty of Holehouse" (6376), bred by Robt. Woodburn, Holehouse, Galston, March, 1899; 1st, 210, Highland.

**SHEEP**—Border-Leicester. 1st, Tup, one-year-old, 25, 1st (pair of Ewe Hogs), 23, Ayrshire.

**CROSS, J. P., Catthorpe Towers, Rugby.**

**HORSES**—Shire. Mare "Catthorpe Donna" (11873), bred by A. Wood, Lockwood Hall, Cheshire, foaled 1889; 1st, 25, Warwickshire; 2nd, 23, Oxon. Stallion "Catthorpe Vulcan" (12906), bred by the Earl of Ellesmere, foaled 1890; 4th, 25, London. Mare "Catthorpe Diamond" (14385), bred by F. J. Stanhope, Whittoft, Lutterworth, foaled 1890; H. C., Hereford, and 2nd, 23, for her colt foal. Mare "Catthorpe Minnie" (16350), bred by Joseph Harrison, The Green Farm, Brailford, Derby, foaled June 6th, 1890; H. C., London; R., Royal Chester; 3rd, 23, Leicester; 1st, 210, Hereford. Mare "Black Countess" (14073), bred by Hall Loundes, Esq., Ellstone, Ashbourne, foaled 1891; 2nd, 210, London; 2nd, 210, Royal Chester; 3rd, 23, Leicester; 1st, 210, Hereford; 1st, 210, Moreton-in-Marsh. Filly "Catthorpe Valetta" (16395), bred by W. H. Potter, Lockington Grounds, Derby, foaled 1891; R., London. Colt "Catthorpe Irving" (14555), bred by S. B. Chadwick, Crofton Lodge, Runcorn, foaled 1892; 2nd, 23, Rugby. Colt "Catthorpe Shamrock" (14557), bred by owner, foaled January 20th, 1892; 3rd, 23, Leicester; 1st, 210, Hereford; 2nd, 23, 144, Cardiff; 1st, 210, Moreton-in-Marsh. Filly "Catthorpe Clemency," bred by J. Cooper, East Haddon, foaled April, 1893; 1st and Champion, Peterborough; 1st, 23, Moreton-in-Marsh.

**CULVERWELL BROS., Durlagh Farm, Bridgwater.**

**SHEEP**—Somerset. Ewes, lambd December 1891; 1st and 2nd, 210, Somerset; 1st and 2nd, 215, Bath and West. Dorset Horns.—Ewes, lambd December, 1891; 1st and 2nd, 215, Royal Counties; 1st and 2nd, Royal Chester. Ram Lambs, December, 1892; 1st and 2nd, 210, Somerset; 2nd, 25, Bath and West; R. No., Royal Chester. Hog Ram, lambd, December, 1891; 2nd, 25, Bath and West. All bred by owners.

**DAVIES, WILLIAM, Bollington, Altrincham.**

**CATTLE**—Jersey. Bull "Hartora" (1787 P.S.C.), bred by C. C. Renouf, St. Martin's, Jersey, January 12th, 1892; Commended, Royal Chester; 1st, 23, Altrincham. Guernsey. Bull "Starling" (549), bred by C. Lister, Warrington, May 26th, 1892; H. C. and Reserve, Royal Chester; V. H. C., Altrincham. Cow "Wagtail" (1770), bred by owner, July 17th, 1890; 1st, 23, Altrincham.

**DERBY, Earl of, Birtley, Witley, Godalming.**

**CATTLE**—Sussex. "Lady Napier II." (5185); 1st, 215, Royal Chester; 2nd, 210, Bath and West; 1st, 210, Royal Counties. "Gladitor" (1171); 2nd, 210, Royal Chester. "Beacon" (1847); 1st, 210, Royal Chester. "Proud Prince" (1249); 1st, 215, Bath and West. "Bully Broadwood" (Vol. xiii., p. 61); 2nd, 25, Royal Counties. "Dulcimer" (5447); 2nd, 25, Royal Counties. "Berry VII." (2993); 2nd, 210, Smithfield; 1st, 23, 32, Guildford Fat Stock; 1st, 24, Red Hill. "Diamond Reece," 3rd, 21, 12, Guildford Fat Stock; 2nd, 23, 22, Red Hill.

**PIGS**—Tamworth. "Colebrook Squire," 1st, 27, Bath and West; Reserve Number six times and other Commendations; Reserve Number and Highly Commended for Fat Pigs at the Smithfield Show.

**DODD, JOHN T., Riccarton, Newcastleton, N.B.**

**CATTLE**—Galloway. Cow "Handsome of Riccarton," bred by owner, January 10th, 1891; 1st, North Tynes. Cow "Ruby of Riccarton," April 25th, 1892; 2nd, North Tynes. Shorthorn Cow, 1895; 2nd, Lidderdale.

**SHEEP**—Cheviot. Bred by J. Robson, Newton Bellingham. Ram (no name), April, 1892; 1st, Royal Chester. Ram "Will Elliot" (804), April, 1899; 1st and Special, Lidderdale. Ram "Dalketh" (862), April, 1890; 3rd, Lidderdale. Ewes, April, 1892; 1st, Lidderdale. Ram, April, 1892; 2nd, Lidderdale. Ram, April, 1892; 1st, Special, Lidderdale; Special Prize Group, 3rd, Lidderdale.

**PONY.** Gelding "Wandering Boy," June 9th, 1899; 2nd, Carlisle; 1st, Hawick; 1st, Lidderdale; 2nd, North Tynes.

**DOWLING, THOS. J., Newbridge, Co. Kildare.**

**HORSES**—Hunter. Mare "Aster," bred by owner April, 1891; 3rd, 25, Dublin Horse; 3rd, Co. Kildare.

**DRUMMOND, HUGH, Craighead, Manachline, N.B.**

**CATTLE**—Ayrshire. Cow "Bloomer III." (7004), bred by owner, calved April 12th, 1889; 1st, 27, Kilmarnock; 2nd, 26, Ayr; 1st and Champion Cup, 23, 32, Manachline. Bull "White Prince," calved March, 1892; two 1st, 27, Galston; 5th and 6th, 23, Kilmarnock; 2nd, 24, Manachline. Bull "Moostrooper," calved April, 1892; two 2nd, 25, Galston; 4th, 10, Lanark. Heifers "Love IV." (8043), calved May 27th, 1891, and "Bloomer V." (8045), calved March, 1891; 1st (as a pair), 24, Galston. Heifers "Bloomer VI." calved March, 1892, and "Bloomer's Heir," calved May, 1892; 1st, 25 (as a pair), Patna, Bull "Duke of Manachline" (2690), calved March 9th, 1891; 1st, 25, and Champion Cup, 25, Kilmarnock; 1st, 25, and Champion, 25, Ayr; 1st, 25, Glasgow; 1st, 24, and Special, 24, Galston; 1st, 212, Silver Medal, and 1st, Champion Cup, 210, Highland. Heifer "May Queen," calved April, 1892; 1st, 24, Galston; 1st (as one of a pair), 24, Galston; 1st, 22, and 1st (as one of a pair), Catrine; 1st, 23, and Champion, 23, and 1st (as one of a pair), 21, and 1st (as one

of four, £3 3s., Patna; 5th, Highland; 2nd, £2, Glasgow; 3rd, £2, Ayr; 3rd (as one of a pair), Ayr; three 1st, £7, Mauchline. Heifer "Clematine," calved May, 1892; 1st (as one of a pair), and 2nd, £2, Mauchline; 1st (as one of a pair), Catrine; 1st (as one of a pair), and 1st (as one of four), Patna; 3rd (as one of a pair), Ayr; 2nd, £2, Galston.

#### DUDDING, HENRY, Riby Grove, Grimsby.

**SHEEP**—Lincoln. Ram "Riby Gem," bred by owner, lambed March, 1892; 1st and Champion, Chicago. Ewe "Warwick Queen," lambed 1891; 1st and Champion, Chicago. Ewe "Chester Queen," lambed 1892; 1st, Chicago, and Royal Chester. Ram "New Zealand Champion," lambed 1890; Champion, Dunedin. This flock also secured 1st for Two-Shear Rams, Ram Lambs, and Shearing Ewes, at Royal Chester, also many prizes at the Lincolnshire, and other Shows.

#### EDGAS, ROBERT, Knight's Hill, Cockfield, E.S.O., Suffolk.

**HORSES**—Suffolk Punch. Stallion "Little Tattle" (2367), born 1892; 1st, £5, R. & H. C., Needham Market; 1st, £10, Romford. "Hardware" (2249), bred by Richard Porter, Rushmere, 1890; 1st, £20, Royal Chester. Suffolk Mare "Prattle" (2213), and Foal "Hard Times," bred by Caleb Kersey, Framsdon, 1887; 2nd, £5, Needham Market; 1st, £20, Royal Chester.

#### EGGINTON, A., South Ella, Hull.

**CATTLE**—Aberdeen Angus. Cow "Equality" (11206), bred by Sir G. McPherson Grant, Bart., December 6th, 1885; 1st, £12, Royal Chester; 1st, £15, and Champion Female Gold Medal, and Ballindulloch Cup, £50, Highland Show; 1st, £10 and Champion Female, £10, Great Yorkshire. Bull "Prior of Barton" (10399), bred by C. Stephenson, Newcastle, January 12th, 1892; 1st, £10, Great Yorkshire.

#### EGMONT, The Earl of, Cowdray Park, Midhurst, Sussex.

**PIGS**—Tamworth. Pen of Two, aged 11½ months, bred by owner; 1st, £10, Smithfield.

#### EVANS, ARTHUR E., Bron-wylla, Wrexham.

**HORSES**—Hackney. Gelding "Duke of York," foaled 1889; 1st, Kidderminster, Taunton, Kingston, Ross, Liangollen, and Dublin; Champion, Birkenhead, Kingston, and Oswestry; 2nd, Bradford and Cardiff. Gelding "Lord Bath," foaled 1889; 1st, Frome, Carnarvon, Knighton, Kingston, Bradford, Exeter, and two 1st, Nottingham; 2nd, Weston and Taunton; 3rd, Dublin. As a pair, "Duke of York," and "Lord Bath," 1st, Exeter, Weston, Taunton, and Cardiff; 2nd, Dublin. As Tandem; 1st, Birkenhead, Cardiff, and Kingston; 2nd, Kidderminster, Exeter, Weston, Taunton, Dublin, and Ross.

#### EVERARD, Major M. T., Randlestown, Navan.

**CATTLE**—Hereford. Bull "Appelles," April 1st, 1892; 1st, £8, Royal Dublin. "Needful," May 6th, 1892; H. C. and Reserve, Dublin. "Legates" (16149), bred by R. H. Metge, Athlumney, May 11th, 1891; H. C. & R. Dublin. "Floris" (16055), bred by R. H. Metge, May 4th, 1891; C. Dublin. Heifer "Lady Woodmaid 2nd," April 1st, 1891; C. Dublin. "Adelaide 36th," bred by R. H. Metge, January 8th, 1891; 1st, £8, Dublin. Cow "Dido," bred by G. Forrester Sherlowe, February 11th, 1891; H. C. & R. Dublin. Bullock, bred by R. H. Metge, January 36th, 1891; 2nd, £8, Dublin. Bullock, bred by owner, April 2nd, 1891; 3rd, £2, Dublin. Bullock, bred by owner, February 4th, 1891; H. C. Dublin.

#### FINLEY, JOSEPH, 46, King Street, Manchester.

**HORSES**—Hunter. Gelding, bred in Ireland, 1887; 3rd, £5, Royal Chester; 3rd, £3, Blackpool; 1st, £5, Worsley; 1st, £10, Altrincham.

#### FLANAGAN, F. A., Cartron, Mantua, Castlereagh.

**HORSES**—Hunter. Gelding "Mealy-mouth," Sire "Zouave," Dam "Sir Hercules," 4 years; 1st, £20 (over course), and 1st, £20 (wall jump), Dublin. Gelding "Feathertop," Sire "Sheldrake," Dam by "Poucette," 5 years; 2nd, £10 (wall jump), Dublin.

#### FLANAGAN, MATTHEW, Tomona, Tulak, Co. Roscommon.

**SHEEP**—Roscommon. Ram, lambed March, 1890; 3rd Prize; lambed March, 1891; 1st, £5; lambed March, 1892; 1st, £8, Royal Dublin.

#### FLETCHER, J. DOUGLAS, Rosehaugh, Inverness, N.B.

**CATTLE**—Aberdeen Angus. Bull "Baron Cowrie" (9789), bred by owner, calved February 29th, 1892; 1st, £4, Inverness. Bull "Minotaur of Rosehaugh" (9421), bred by owner, December 8th, 1890; V. H. C., Royal Chester; 1st, Fortrose. "Bullion" (9639), bred by Sir G. McPherson Grant, of Ballindulloch, December 16th, 1891; 3rd, £4, Highland; 1st, Fortrose. Cow "Lili" (13616), bred by owner, February 7th, 1889; 1st, Fortrose. Heifer "Pride of the Highlands" (17423), bred by owner, December 18th, 1890; 1st and Champion Cup, £20 10s., Fortrose; 1st, Special and Champion Cup, £21, Inverness; 1st, Breed Cup, best Female Cup, and Champion of Show, and also Gold Medal, £215, Smithfield. Heifer "Lucia of Rosehaugh," bred by owner, December 28th, 1891; 2nd, £2, Inverness. Steer, bred by owner, January 20th, 1892; 1st and Special, £14 10s., Inverness.

Shorthorn. Heifer "Lily of Nozar," bred by W. J. Matheson, Ross-shire, N.B., February 25th, 1891; 1st and Breed Cup, £65, Bingley Hall; 1st and R. for Breed Cup, and R. for best Female, £20, Smithfield.

**HORSES**—Clydesdale. Stallion "Prince Albert of Rosehaugh" (9357), bred by owner, April 19th, 1890; V. H. C., Chester; 2nd, £2, Aberdeen; H. C. Highland; 1st and Champion Cup, £20 10s., Fortrose. Filly "Alma," bred by owner, May 19th, 1891; 2nd, £10, Chester. Filly "Montrose Marietta," bred by J. Gilman, of Montrose; 1st, Fortrose; 2nd, Aberdeen. Mare "Sybil" (10586), bred by Sir Robert Loder, Whittlebury, May 31st, 1887; 1st, Fortrose. Mare "Alice Grey" (9632), bred by J. Waddell, Bathgate, June 1st, 1886; 1st, Fortrose. Mare "Nellie McDonald," bred by owner, May 16th, 1890; 2nd, Fortrose. Stallion "Rosehaugh Stamp" (9660), bred by owner, May 18th, 1891; 1st, Fortrose.

#### FLINN, JOSEPH, Tednambury, Bishop's Stortford.

**HORSES**—Hackney. Mare "Delight" (2005), bred by T. Nix, Neatmore Hall, Norfolk, 1883; 2nd, £8, Hatfield. Mare "Lady Lucy" (1645), bred by G. Willis, Flamborough, Hull, 1891; 3rd, £2, Waltham Cross. Stallion "Stortford Knaplight" (4529), bred by owner, 1891; 2nd, £2, Romford. Stallion "Stortford Denmark" (Vol. 21), bred by owner, 1892; 2nd, £2, Chatteris; Commended London Horse Show. Shire. Stallion "Stortford Albert" (Vol. 22), bred by owner, 1892; 2nd, £3, Waltham Cross.

**CATTLE**—Jersey. Heifer "Tite Promise," bred by Edward Barclay, Hertford Heath, May 1891, R. & H. C., Chatteris; 2nd, £3, Hatfield; 3rd, £2, and Blythwood Champion Cup, Romford. Bull "Pioneer's Glory," bred by R. Arthur, Jersey, August, 1892, R. & V. H. C., Southampton; C. Hatfield.

#### FORSTER, STUART, Postlip Hall, Winchcombe, Glos.

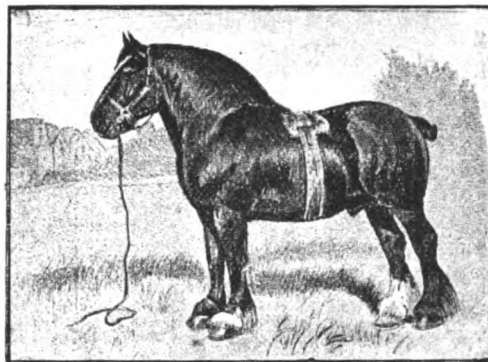
**HORSES**—Shire. Mares "Playmate" (8637), bred by —, Peacock, Somershall, foaled 1887; 1st, £10, Hereford; 1st and 3rd, £15, Cardiff; 3rd, £3, Moreton-in-Marsh. "Rokeby Belle" (13293), bred by —, Baker, Atherstone, foaled 1890; 1st, £10, Frome. "Bridesmaid," bred by —, Parnell, Rugby, foaled 1890; 2nd, £5, Kidderminster; 3rd, £2, Knighton. H. C., Biester; C. Bath and West. "Thicket Queen" (1187), bred by —, Wheeler, Selby, foaled 1887; 1st, £10, Frome. "Forrest Chance," bred by —, McGibbon, Burton, foaled 1891; 3rd, £2, Biester; H. C., Knighton; C. Bath and West and Kidderminster. "Crown Hopeful," bred by —, Lewis, Wellington, foaled 1891; 2nd, Frome; 2nd, Biester; 3rd, Bath and West; V. H. C., Knighton and Cardiff; C., London and Newport. "May Darling," bred by —, Millard, Shrivvenham, foaled 1891; 1st, Frome; 2nd, Bath and West; 3rd, Hereford, Cardiff and Moreton-in-Marsh. Stallion "Victor Emanuel," bred by owner, foaled 1892; 2nd, Newport.

#### FWLER, PERCIVAL H., Watford Station, Herts.

**CATTLE**—Guernsey. Heifer "Star 6th" (3159 P.S., R.G.H.B.), bred by G. Torode, Forest, Guernsey, born February, 1891; 1st, £18, Chester. Heifer "Chardine 2nd" (3177 P.S., R.G.H.B.), bred by T. Ogier, Guernsey, born January, 1891; 3rd, £25, Chester. Heifer "Orcala" (3246 P.S., R.G.A.S.H.B.), bred by Mr. Cameron, Guernsey, born December, 1890; 1st, £5, Dairy Show.

#### FRANKLIN, G. E., St. Leonards, Osmaston Road, Derby.

**PONIES**—Welsh Mountain. Gelding "Dandy Dick," foaled 1887; 1st, £3 and 2nd, £2, Newark; 2nd, £5, Royal; 2nd, £10s., Nottingham; 1st and two 2nd, £7, Peterboro'; 1st, Saddle, 1st, Harness, £19, Northampton; 2nd, £3, Staffs.; 1st and Champion, 17, Meynell Hunt; 1st, £5, Belper; 1st, £3, Greasley and Selston; 1st, £3,



"TOPKNOT,"

The Property of A. B. Matthews, Esq.

Kington; 2nd, £3, Rutland. Gelding "Electric," foaled 1887; 1st, Saddle, and 1st, Harness, £7 10s., Nottingham; 1st, Saddle, and 3rd, £4, Peterborough; 3rd, £2, Leicester; 1st, £7, Staffs.; 1st, £5, Derby; 2nd, £2, Belper; 1st, £2 2s., Burton. Mare "Lady Mabel" (2210), and foal by "Cassius," bred by J. Blythe, Hut on Cranswick, Yorks., 8 years; 1st, £5, Nottingham. Mare "Lady Mona," 7 years; 2nd, £3, Derby; 1st, £4, Etwell.

**FRANKS, MATTHEW, Westfield, Mountrath, Ireland.**

**SHEEP—Border-Leicester.** Ram Lambs; 2nd and H. C., £3. Shearling Ewes; 2nd, £3. Aged Ewes; 2nd, £3. Ewe Lambs; 2nd, £3, and H. C.; Royal Dublin.

**GIBSON, Danston, Metchley, Edgbaston.**

**PIGS—Large, Middle, and Small White.** Five 1st, five 2nd, two 3rd, Royal Chester; two 1st, three 2nd, Bath and West; four 1st, two 2nd, Nottinghamshire; one 1st, two 2nd, Lincolnshire; four 1st, one 2nd, Leicestershire; five 1st, four 2nd, Glamorganshire; four 1st, two 2nd, and Silver Medal, Staffs.; three 1st, three 2nd, Warwickshire; three 1st, Lord Tredegar's Show; one 1st, two 2nd, Bingley Hall; three 1st, Smithfield; also 20 Reserve Numbers, and Commendations, making 80 awards for 81 exhibits.

**GLYNN, W. A., Seagrove, near Ryde.**

**CATTLE—Cuernsey.** Bull "Tommy IV." (552), bred by owner; 2nd, £5, Royal Counties; 1st, £10, Royal Chester. Bull "Hopeful IV." (545); 1st, £3, Tunbridge Wells. Cow "Jessica" (164); 3rd, £3, Royal Counties; 2nd, £1 10s., Isle of Wight. "Madeleine" (864); R. and V. H. C., Royal Counties. "Favourite XIII."; 1st, £10, Royal Counties. "Madeleine II." (1664); 2nd, £5, Royal Counties. "Madeleine III." (1568); 1st, £10, and Champion, £10 10s., Royal Counties. "Jessica III." (1608); 3rd, £3, Royal Counties. "Favourite XI." (2140); R. and V. H. C., Royal Counties; 1st, £2, Isle of Wight. "Amelia" (1223); R. and V. H. C., Royal Chester. "Frisky IV." (1558); 2nd, £10, Royal Chester. "Honesty IV." (379); 1st, £3, and Champion, £5 5s., Isle of Wight. "Honesty II." (354); R. and V. H. C., Isle of Wight. "Jessica II." (1591); 1st, Isle of Wight. "Favourite XIV." (1573); 2nd, £1, Isle of Wight. "Honesty VI." (2176); 2nd, £1, Isle of Wight. Family Groups "Madeleine," "Madeleine II.," and "Madeleine III." Special, £10 10s., Royal Counties. "Honesty II.," "Honesty IV.," "Honesty VI.," Her Majesty The Queen's Silver Cup, Isle of Wight.

**GODMAN, J., Park Hatch, Godalming.**

**CATTLE—Sussex.** Bull "Goldlink" (1699), March 1st, 1890; 2nd, £10, Royal Chester; 2nd, £10, Bath and West. Bull "Oxford Duke VI." (1288), May 16th, 1891; 2nd, £10, Bath and West; 2nd, £3 3s., Loxwood. Bull "King John II." (1360), February 17th, 1892; 2nd, £10, Bath and West; 2nd, £5, Royal Chester. Heifer "Comely XIX." (5070), January 10th, 1890; 1st, £15, Bath and West; 2nd, £10, Royal Chester; 2nd, £3, Tunbridge Wells; 1st, £4, and Champion, £5 5s., Tonbridge; 1st, £15 and R. No. for Cup, Smithfield. Heifer "Gentle XV." (5508), January 26th, 1891; 2nd, £5, Bath and West; 1st, £4, Tonbridge; 1st, £20, Smithfield. Heifer "Dakota VIII." (3900), January 16th, 1892; 1st, £10, Royal Chester; 2nd, £5, Bath and West. Heifer "Christmas Dark IV." (1100), January 13th, 1893; 3rd, £1, Tonbridge. Steer: Sire "King John" (1100); Dam "Christmas Dark II." (4729), January 7th, 1892; 1st, £25, Smithfield; 2nd, £1 10s., Loxwood. Steer: Sire "Nobility" (878); Dam "Comely XV." (4629), June 1st, 1891; 3rd, £10, Smithfield; all bred by owner.

**GOODYEAR, HENRY, The Austerly, Bourne.**

**SHEEP—Lincoln Long Wool.** Shearling Rams, bred by owner; 1st and 2nd, £10, Peterborough. Shearling Ewes; 1st, £5, Peterborough; 1st and Special, £10, Oakham. Ewe Lambs; 2nd, £3, Peterborough; 1st, £5, Oakham. Ewes that have suckled lambs; 2nd, £3, Northampton. Fat Ewe; 1st, £3, Oakham. Breeding Ewes; 1st and 2nd, £8, Oakham. Fat Ewe Lambs; 1st, £5, and Special for best Sheep in Show, Bourne. Ewes (three), R. and H. C., Smithfield, the heaviest pen of Sheep in Show, live weight 9 cwt. 3 qrs. 21 lbs., average dead weight 265 lbs.

**GRANT, Sir GEO. McPHERSON, Bart., Drumduan, Forres, N.B.**

**CATTLE—Aberdeen Angus.** Bred by owner. Bull "Prince Inca" (7444), calved February 26th, 1889; 1st, Royal Chester. 1st, Her Majesty the Queen's Prize, £50 for best animal in breeding section of Shorthorn and Aberdeen Angus classes; Challenge Cup and McCombie Prize £50 for best breeding animal, Aberdeen. Bull "Eltham" (9130), calved January 16th, 1891; 1st, Royal Chester; 1st, Aberdeen; 1st prize; Ballindoch Cup, £50 for best Bull; and Gold Medal, £8 10s. for best Bull given by Polled Cattle Society, Highland. Bull "Prince IIad" (6891), calved May 22nd, 1888; 2nd, Aberdeen; 2nd, Highland. Bull "Eurotas" (9962), calved January 17th, 1892; 1st, Aberdeen; 1st, Highland. Cow "Eurya" (13708), calved May 21st, 1888; 3rd, Royal Chester; 2nd, Aberdeen; 3rd, Highland. Heifer "Gentian" (12938), calved December 23rd, 1891; 1st; Special for best Yearling Heifer, and Special £40 for best Heifer of any pure breed, Aberdeen; 1st, Highland. Cow "Geniata" (13051), January 25th, 1890; V. H. C., Highland. Cow "Rose of the Vicarage" (16508), calved March 7th, 1890; 2nd, £8, Highland. Pair of Cows "Geniata" and "Rose of the Vicarage," 1st, Aberdeen. Bull "Prince Inca," and three Cows "Eurya," "Geniata," and "Gentian," by Mr. Frazer's Prize, £20, for best group, Aberdeen.

**GREEN, EDWARD, The Moors, Welshpool.**

**HORSES—Hackney.** Mare and Foal "Modesty" (1731), bred by H. Moore, Burn Butts, Cranswick, Hull, foaled 1887; 1st and Hackney Stud Gold Medal, Royal Chester; 1st, Shropshire and West Midland; 1st, Oswestry; 1st, Welshpool. Pony Mare and Foal "Jessie" (3954), bred by owner, foaled 1885; 3rd, Royal Chester; 3rd, Shropshire and West Midland. Stallion "Blaze II." (3376), bred by C. Reader, Brough, Yorks, foaled 1888; 1st Oswestry; 1st Welshpool. Shire. Mare and Foal "Weston Blossom" (7271), bred by James Weston, Dunchurch, Rugby, foaled 1885; 1st, Oswestry; 1st, Welshpool. Foal by "Potentate" (12086); 1st, Oswestry; 1st, Welshpool. Filly "Moors Beauty" (17660), bred by F. Edwards, foaled 1892; 1st, Oswestry; 1st, Welshpool. Stallion "Sterling" (4066), bred by W. Jonas, Heydon Bury, Essex, foaled 1883; 1st, Oswestry; 2nd, Welshpool.

**PONY.** Gelding "Whiskers," foaled 1887; 1st (Saddle), 1st (Harness), Welshpool; 1st and 2nd, Oswestry.

**GREEN, RICHARD, The Whittorn, Kingston, Herefordshire.**

**CATTLE—Hereford.** RECORD 1891—Heifer "Perilla" (Vol. xxi., p. 355), bred by owner, calved, January 8th, 1890; 1st, £10, Herefordshire; 1st, £10, Bath and West; 1st, £15, Royal; 1st, £10, Shropshire and West Midland; 1st, £10, Lord Tredegar's Heifer "Diana" (Vol. xxi., p. 364), calved April 1st, 1889; 1st, £10, Herefordshire; 1st, £10, Bath and West; 1st, £15, Royal; 1st, £10, Shropshire and West Midland; 1st, £10, Lord Tredegar's Steers (pair of); 1st, £7, Hereford. Steers (four); 1st, £5, Leominster; 1st, £4, Ludlow. Steer "Pippin," calved February 2nd, 1890; 2nd, £10, Birmingham. Record 1892—Heifer "Perilla"; 1st, £10, Bath and West; 1st, £10, and Champion, £10, Hereford; 1st, £8, Shropshire and West Midland; 1st, £15, and Champion, £15, Royal; 1st, £10, Lord Tredegar's Bull "Overseer," calved January 21st, 1891; 1st, £10, Hereford. Breeder's Bull "Pioneer," calved January 2nd, 1891; 1st, £5, Leominster; 1st, £4, Ludlow. Record 1893—Heifer "Perilla"; 1st, £7, and Champion, £10, Herefordshire Show; 1st, £15, Bath and West; 1st, £15, Royal; 1st, £8, Shropshire and West Midland; 1st, £6, and Champion Female of Hereford, £5, and Champion Female of all Classes, £6, Glamorganshire. "Rachel" (Vol. xxi., p. 351), bred by Geo. Child, Court of Noke, Penbridge, calved February 9th, 1891; 2nd, £5, Herefordshire; 2nd, £10, Royal; 2nd, £4, Shropshire and West Midland; 2nd, £3, Glamorganshire; 2nd, £5, Lord Tredegar's Show, Bull "Prince Richard" (Vol. xxi., p. 352), calved January 22nd, 1893; 1st, £3, Glamorganshire.

**GREENALL, GILBERT, Walton Hall, Warrington.**

**HORSES—Hunter.** Brood Mare "Scarlet," exhibited twice, awarded one 1st and one 3rd. Foal by "Just in Time," out of "Scarlet," awarded one 2nd. "The Prince," exhibited ten times, awarded one Champion, six 1st, three 2nd, and one 3rd. "Raah," exhibited once, awarded 3rd prize.

**Hacks and Harness.** "Lady Alice II," exhibited eighteen times, awarded thirteen 1st, eight 2nd, three 3rd, and two R. Nos. "Valentine," exhibited eleven times, awarded one Champion, four 1st, two 2nd, one 3rd, and one R. No. "His Lordship," exhibited eighteen times, awarded Champion once, R. for Champion twice, fourteen 1st, four 2nd, and one R. No. "His Highness," exhibited eighteen times, awarded two Champions, thirteen 1st, two 2nd, one 3rd. As a Pair or Tandem "His Highness" and "His Lordship," nine 1st, four 2nd, and one 3rd. "Amazement," exhibited twice, awarded two 1st. "Lady Rosebery," exhibited seventeen times, awarded one Champion, seventeen 1st, seven 2nd, one 3rd, and two R. Nos. "Lady Sydon," exhibited five times, awarded four 1st, one 2nd, one 3rd, and one R. No. Horses were exhibited at twenty-four shows, the total awards being six champions, and two R. Nos. for Champion, eighty-three 1st, thirty-three 2nd, ten 3rd, and seven R. Nos.

**CATTLE—Jersey.** Bulls "Zulus Pride," exhibited once, awarded 3rd. "Rosa's Fortescue II," exhibited four times, awarded one 1st, and two 2nd. "Little Gem," exhibited five times, awarded one 1st, two 2nd, and two R. Nos. Cows and Heifers "Brebia VIII," exhibited once, awarded one 1st. "Miranda," exhibited four times, awarded one Champion, one 1st, one 2nd, and one R. No. "Wonderful," exhibited twice, awarded one 1st, and one R. No. "Daisy of the Valley," exhibited twice, awarded two 1st. "Lady of the Lake," exhibited twice, awarded one 3rd. "Wigton III," exhibited once, one 3rd. "Mona VII," exhibited three times, awarded one Champion, one 1st, and one 3rd. "Longueville Broenie," exhibited once, awarded 1st and R. No. for Champion. "Surprise," exhibited three times, one 1st, one 2nd, and one R. No. "Wonder's Queen," exhibited twice, awarded one 2nd. Cattle were exhibited at six shows, the total awards being two Champions, and one R. No. for Champion, ten 1st, seven 2nd, four 3rd, and five R. Nos.

**GWYNNE, J. E. A., J.P., Folkington Manor, Polegate, R.S.O., Sussex.**

**HORSES—Hunter.** Mare "Lady Catherine," 1892; 1st, £5, Tunbridge Wells.

**CATTLE—Sussex.** Cows "Betsey VII." (5536), 1887; 1st, £5, Hastings. "Betsey III." (4761), 1885; 3rd, £1 10s., Hastings. Bull "Goldbecker" (1264), 1892; 2nd, £2, Hastings. Heifer, 1891; 3rd, £1 10s., and Reserve, Hastings. Bull "Bettison II." (1191), 1891; Reserve, Hastings.



**HAMILTON, WILLIAM J.**, Castle Hamilton, Killeshandra, Co. Cavan.

**CATTLE**—Hereford. Cow "*Adelaide*" (80), bred by R. S. Fetherstonhaugh, Rockview, Killucan, April, 1884; 2nd, £4, Dublin.

**HASSARD, ROBERT**, Desertcreat, Dungannon and Parkmore, Co. Antrim.

**SHEEP**—Blackfaced. Record, 1888 (2 entries)—3rd and R. No., Belfast. 1889 (7 entries)—two 1st, two 2nd, Belfast; two 1st, one 2nd, Derry. 1890 (9 entries)—1st, 2nd, three R. No. & H. C., Belfast; two 1st and H. C., Derry. 1891 (11 entries)—three 1st, 2nd and R. No., Belfast; 1st, two 2nd and H. C., Derry; two 2nd, Dublin. 1892 (11 entries)—two 1st, two 2nd, two H. C., one C., Belfast; two 2nd, one V. H. C., one C., Derry. 1893 (10 entries)—two 1st, 2nd, R. No., two H. C., Belfast; 2nd and V. H. C., Derry; 2nd and H. C. & R., Dublin.

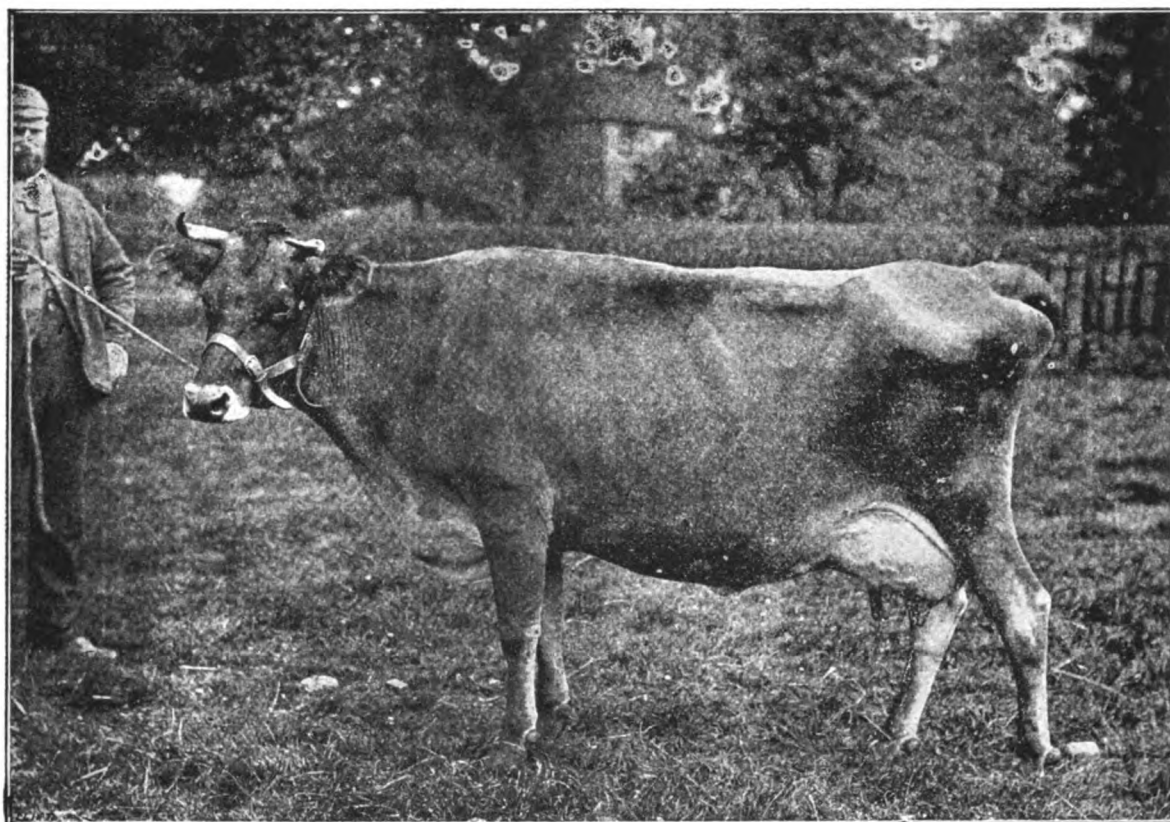
**HEYWOOD-LONSDALE, A. P.**, Shavington, Market Drayton.

**HORSES**—Shire. Stallion "*Stampede*" (14904), foaled 1890; Commended, Royal Chester; 2nd, Shrops. and West Midland. Mare "*Daisy*" (3447), foaled 1888; H. C., Market Drayton. Colt by "*Carlton Nonsuch*" (6985), dam "*Helena*" (10135), 1893; 3rd, Market Drayton. Filly by "*Carlton Nonsuch*," dam "*Fantastic*" (6977), 1893; 2nd, Market Drayton. Filly by "*Carlton Nonsuch*," dam "*Daisy*," 1893; 3rd, Market Drayton.

**CATTLE**—Guernsey. Heifer "*Shavington Freda*" (2034), 1891; C., Royal Chester.

**HICKMAN, Major T. C. FENLON**, Newmarket-on-Fergus, Co. Clare.

**CATTLE**—Kerry. Cow "*Gort Belle*," born 1891; 1st, £5, Royal Dublin; H. C. & R. No., Royal Chester; 1st, £3, Cork. "*Gort Moll*," 1891; 3rd, £1, Royal Dublin; H. C., Chester; 3rd, £1, Cork. "*Ruthera Violet II.*" (1178), bred by G. Fitzgerald, Listowel, 1886; 1st, £3, Cork.



"CHESNUT II."

*The Property of Salisbury Bazendale, Esq.*

**HAYTER, EDNEY**, Whitechurch, Hants.

**PIGS**—Berkshire. Sow "*Higglee B.*" (4164), bred by E. Burbidge, South Wrexhall, Bradford-on-Avon, September 5th, 1891; 1st, and Champion, Royal Chester; Oxfordshire and Royal Counties; total £44. Boar, bred by J. Chick, Dorchester, June, 1892; 2nd, £5, Royal Counties.

**HERBERT, J. A.**, Llanarth Court, Raglan, Mon.

**PIGS**—Tamworth. Two "*Llanarth Diamond*" and "*Llanarth Countess*," bred by owner, March 8th, 1893; 1st, £10, and Thorley Cup, £3, Birmingham; 1st, £10, and Breed Cup, £10, Smithfield.

**HESMONDHALGH, GEORGE, 29**, Deane Road, Bolton.

**PONIES**. Stallion "*Express III.*" (4760), bred by —. Thompson, Glandifon Farm, Grostre, Rhayader, foaled 1888; Silver Cup, £10 10s., Bolton; Gold Medal, £5 5s., Edgeworth; 2nd, £10 10s., Royal Chester; 1st, £5 5s., Hindley.

**HOARE, Mrs. C. T.**, Siggall, Bicester.

**HORSES**—Hunter. Gelding "*Seakale*," bred by owner, 1888. Record, 1891—1st, Newport; 3rd, Cardiff. 1892—1st, Royal; 1st and Champion, Bath and West; 2nd, Middlesboro'; 1st, Peterborough; 2nd, Market Harborough; 3rd, Cardiff; 1st, Bath. 1893—1st, £20, Royal; 1st and Champion, £20 and £25, Peterborough; 1st and Champion, £10 and £5, Oxfordshire; 1st and Champion, £25 and Cup, value £25, Bath; 1st and Champion, £40 and £50, Cardiff; 1st, £20, Leicester. Mare "*Castor Owl*," and Foal by "*Lord Molynoo*," R. No., Oxfordshire.

**HODGSON, J. STEWART**, Lythe Hill Farm, Haslemere.

**CATTLE**—Sussex. Bull "*Headley*" (1201), bred by owner, calved January 22nd, 1891; 1st, Bath and West; 1st, Royal Counties; 1st, Royal Chester; 2nd, Tunbridge Wells.

**SHEEP**—Southdown. Shearling Ram; 1st, Bath and West; 2nd, Bicester; 3rd, Royal Counties.



**HORSEFALL, F. WILSON, Potto Grange, Potto Station, Northallerton.**

**HORSES**—Cleveland Bay. Mare "*Horsefall's Prosperity*," bred by Andrew Moscrop, foaled 1891; 1st, Special, and Champion, £30, Great Yorkshire; 2nd, Cleveland; 1st, and Champion, Whitby; 1st, Thirak; 1st, Sedgely; 1st, Danby; 1st, Bishop Auckland; 1st, Stokesley; 1st, Northallerton; 1st, Wolsingham; 1st, Stanhope. Filly "*Horsefall's Prudence*," bred by owner, foaled 1893; 2nd, Gainford, Cleveland, Yarm, Carleton, and Thirak. Filly "*Bonny's Daughter*," bred by owner, foaled 1890; 2nd, Gainford; V. H. C., Shelton; H. C. Yarm. Filly "*Horsefall's Belleringer*," bred by owner, foaled 1892; 2nd, Cleveland. Filly "*Cleveland's Pride*," bred by Mr. Tyreman; 1st, Skelton; R., Great Yorkshire. "*Horsefall's Godhead*," foaled 1893; 2nd, Northallerton; 2nd, Stokesley. Mare "*Lady Jane Grey*," bred by Mr. Dennis; Challenge Cup for best Cleveland Bay Brood Mare in Show, Stokesley.

**HOSEEN, W. J., Logan's Mill, Hayle, Cornwall.**

**CATTLE**—Shorthorn. Bull "*Prince Oscar*" (63147), bred by owner, June 2nd, 1891; 6th, £4, Birmingham. Bull "*Donovan*" (62388), bred by owner, June 17th, 1891; 8rd, £2, Torquay; 8rd, £3, Liskeard. Heifer "*Coroness XXVI*" (Vol. xxix, p. 496), bred by owner, June 1st, 1892; 2nd, £3, Torquay; 1st, £6, Liskeard. Heifer "*May Queen*" (Vol. xxxviii, p. 435), bred by the late G. Williams, Scorrier, May 19th, 1891; 2nd, £4, Torquay; 1st, £6, Liskeard; R. and V. H. C., Smithfield; 1st, £6, Champion best Female, £5 5s., Plymouth. Heifer "*Carnation XVI*" (Vol. xxxviii, p. 478), bred by owner, September 29th, 1890; 2nd, £4, Torquay; 2nd, £4, Liskeard; 1st, £15, Birmingham. Bull "*Oxford Beau II*" (61391), bred by owner, February 20th, 1890; 8rd, £3, Liskeard. Bull "*True Blue*" (64929), bred by owner, June 6th, 1892; 1st, £8, and Shorthorn Society's Champion, £30, Liskeard. Cow "*Gertrude VII*" (Vol. xxx, p. 539), bred by owner, September 2nd, 1893; 2nd, £4, Liskeard; 1st, £6, Plymouth.

**HORSES**—Hunter. Gelding "*Tally Ho*," piece of Plate for best Hunter bred in Cornwall, under 5 years of age, £5 5s., Cornwall County Horse Fair.

**HULBERT, T. R., North Carney, Cirencester.**

**SHEEP**—Cotswold. Ram "*Cerney Boy IV*" (442), bred by owner, lambed 1892; 1st and Champion, £30, Bath and West; 2nd, £10, Royal Chester. Ram Lambs; 2nd, £5, Bath and West. Shearling Ewes; 8rd, Bath and West; 1st, £5, Kidderminster; 1st, £5, Newport. Wether Lambs; 1st, £5, Newport; 2nd, £10, Smithfield. Two-Shear Rams; 2nd, £3, Kidderminster. Fat Wethers; 1st and 2nd, £25, Smithfield. Ewes; 2nd, £5, Smithfield.

**IRVING, T. R., Beech Hill, West Derby, Liverpool.**

**HORSES**. Gelding "*Banker*," born 1896; 1st, £10 and Champion Cup, £10, Altrincham. "*Conqueror*," bred by—Flynn, Dulhallow, 1886; 1st, £15, Hereford; 1st, £10, Blackpool; 1st, £6, Middleton; 1st, £3, Sandbach; 2nd, £3, Worsley. "*Uttia*," bred by P. Ahearn, Rathormac, Fermoy, 1887; 1st, £20, Knighton; 1st, £5 and Champion Cup, £10, Worsley; 1st, £15, Wirral and Birkenhead; 2nd, £2, Sandbach; 2nd, £7, Blackpool; 2nd, £3, Middleton.

**JACKSON, GEORGE, Brandwood House, King's Heath.**

**HORSES**—Hackney. Mare "*Minnie*" (2304), bred by Joseph Morton, Stow, near Lynn, 1888; 1st, £15, Royal Chester; 1st, £10, Blackpool; 1st, £4 and Silver Cup, Lancaster; 1st, £10, Warwickshire. Stallion "*Melbourne*" (2564), bred by R. Peacock, Hookwood, 1889; 1st, £10 and Special £5, Warwickshire. Stallion "*Major*," bred by owner, 1892; 1st, £5, Warwickshire; 1st, £2, Lancaster. Stallion "*Manfred*," bred by owner, 1893; 1st, £3, Blackpool; 1st, £3 and Silver Cup, Oxley.

**JACOBS, ROBERT, Signett Hill, Burford, Oxon.**

**SHEEP**—Cotswold. Bred by owner. Ram "*Royal Chester*," lambed February, 1892; 1st prize, £5, Oxfordshire; 1st, £15, Royal Chester. Ram "*Tertius*," February, 1892; 8rd, £1, Oxfordshire. Ram "*Russell II*," February, 1891; 2nd, £10, Royal. Ram Lambs, three, February, 1893; 1st, £5, Oxfordshire. Ditto, 2nd, £2, Oxfordshire. Ewe Lambs, three, February, 1893; 1st, £5, Oxfordshire.

**JARDINE, Sir ROBERT, Bart., Castlemilk, Lockerbie, N.B.**

**CATTLE**—Galloway. Cow "*Devdrop of Castlemilk*" (11959), bred by owner, May 8rd, 1890; 8rd, £5, Royal Chester. Heifers "*Lady Vanderville of Castlemilk*" (12936), April 10th, 1891; 2nd, £10, Royal Chester; 1st, £10, Highland; 2nd, £3, Dumfries. "*Mabel of Castlemilk*" (12950), January 17th, 1892; 4th, Royal Cheshire; 1st, £10, Highland; 2nd, £3, Dumfries. "*Victress of Castlemilk*" (12949), March 24th, 1892; 8rd, £3, Highland. "*Miss Douglas of Castlemilk*" (12467), January 21st, 1891; 1st, £3, Dumfries; 1st and Champion, £10 10s., Carlisle Fat Stock. "*Lady J. Douglas III. of Castlemilk*," 1st, £1, Lockerbie.

**JINKS, WM., Middlewich.**

**HORSES**—Hunter. Gelding "*Tippy*," bred by Geo. Jinks, Middlewich, foaled 1891; 8rd, £5, Royal Chester; 1st, £3, Sandbach; 2nd, £2, Middlewich.

**JOHN, T. D., Corporation Hotel, Cardiff.**

**HORSES**. Hackney. Tandem "*Lord Bute*" and "*Young Elegance*," 1st, Richmond; 1st, Exeter; 1st, Weston; 1st, Bridgend; 1st, Hereford; 1st, Ross; 1st, Banwell; 1st, Bulth; 1st, Swansea; 1st, Bath; 1st, Cardiff. Pair "*Lady Windsor*" and "*Young Elegance*," 1st, Hereford; 1st, Banwell. "*Lord Bute*," 1st, Weston; 1st, Bridgend; 1st, Ross; 1st, Aberystwyth; 1st, Bulth. "*Young Elegance*," 2nd, Islington; 2nd, Richmond; two 1st, Weston; two 1st, Bridgend; 1st, Swansea; 1st, Cardiff; two 1st, Aberystwyth. "*Movement*," 1st and 1st Champion, Islington; two 1st, Richmond; 1st, Exeter; 1st, Weston; two 1st, Bridgend; 1st, Banwell; 1st, Swansea; 1st, Bath; 1st, Cardiff; 1st, Aberystwyth; two 1st, Monmouth; 1st, Lord Tredegar's. "*Queen Bee*," two 1st, Plymouth; two 1st, Exeter; two 1st, Bath; 1st, Lord Tredegar's. The total value of prizes won in 1893, is £358 16s., in cash, and four Silver Cups.

**JOHNSTONE, JOHN A., Archbank, Moffat, N.B.**

**SHEEP**—Cheviot. Rams "*Wat-o'-the-Nick*" (358), April, 1890; 8rd, Edinburgh; 1st, Moffat; 1st and Silver Cup, Dumfries. "*Black Horn*," 8rd and 4th, Edinburgh; 1st, Moffat; 2nd, Dumfries. "*Pride of Eskdale*," 1st, Moffat; 8rd, Dumfries. "*Wheel Horn*," 1st, Moffat; 2nd, Dumfries. "*Bob*," 2nd, Moffat; 1st, Dumfries. "*Brownies Heir*," 8rd, Moffat; 8rd, Dumfries. Ewe Lambs, 1st and 8rd, Moffat; 1st, Dumfries. Tup Lambs, 2nd, Moffat; 8rd, Dumfries.

**JONES, J. BOWEN, Ensdon House, Montford Bridge, Salop.**

**CATTLE**—Hereford. Bred by owner; Bull "*Magician*" (16832), calved January 25th, 1892; 2nd, £4, Shropshire and West Midland; 1st, £5 5s., Oswestry. Heifer "*Ensdon Halspilot*" (Vol. xxiv, p. 210), calved February 2nd, 1891; 2nd, £4, Shropshire; 2nd, Oswestry. Heifer "*Ensdon Dound Altham*" (Vol. xxiv, p. 212), calved January 28rd, 1892; 2nd, £4, Shropshire.

**SHEEP**—Shropshire. Ram, lambed March, 1892; 1st, £15, Bath and West. Ram, lambed February, 1892; 2nd, £3, Royal Counties. Ram "*Oswestry Leader*" (Vol. xxi.), lambed February, 1892; 1st, £5, Oswestry. Pen of Ewes, lambed March, 1892; 4th, £3, Bath and West; 2nd, £3, Royal Counties; 2nd, £3, Herefordshire; 8rd, £5, Shropshire; 1st, £5, Oswestry. Pen of Wethers; 2nd, £15, Bingley Hall; 2nd, £10, Smithfield.

**KEENE, REES, Llanvihangel Court, Chepstow.**

**CATTLE**—Hereford. Heifer "*Blanche Pembroke*," January 4th, 1892; 1st, £10, Bath and West; 1st, £10, Kidderminster; 1st, £10, Chester; 1st, £10, Tredegar. Bull "*Reliance II*," January 17th, 1893; 1st, £10, Tredegar. Heifer "*Princess May*," February 8th, 1893; 2nd, £5, Tredegar.

**KELSEY, THOS., Hook House, Goolle.**

**HORSES**—Coach. Stallion "*Lord Howden*," bred by owner, foaled 1891; 1st, £15, Royal Chester. Mare "*Patience*" (118), foaled 1877; 1st, £15, Royal Chester. Mare "*Pauline*," foaled 1892; 1st, £10, Yorkshire Show.

**LANBERT, HENRY, Babraham, near Cambridge.**

**SHEEP**—Hampshire Down. Shearling Ram "*Birthday*" (849), 1st, £5. Shearling Ram "*Colonist*" (848), 2nd, £3. Ram Lamb "*Conjuror*," 1st, £5. Ram Lamb "*Keystone*," 2nd, £3. Pen of three Ewe Lambs, 1st, £5. Pen of three Ewe Lambs, 2nd, Special Prize, Essex County Show, Romford. Two-Shear Ram "*Doncaster*" (829), 1st, £10. Pen of three Ram Lambs "*Nobleman*" and "*Keystone*," 1st, £10. Pen of three Ram Lambs "*Conjuror*," 2nd, £5, Royal Chester. Shearling Ram "*The Druid*" (847), 1st, £8. Pen of three Ewe Lambs, 2nd, Special Prize, £3, Norfolk Show, Norwich. Shearling Ram "*The Druid*" (847), 1st, £5. Shearling Ram "*Birthday*" (849), 2nd, £3 10s. Pen of three Ram Lambs "*Keystone*," "*Conjuror*," and "*Nobleman*," 1st, £5. Pen of three Ram Lambs "*Stonehenge*," "*The Earl*," and "*Architect*," 2nd, £3 10s. Pen of three Ewe Lambs 1st, £5. Pen of three Ewe Lambs 2nd, £3 10s. Pen of three Ewe Lambs, 1st, Special Prize, £5. For best collection of Sheep in the Show, Champion Prize, £10, Camba. and Isle of Ely Show, Chatteris.

**LANBERT, Major M. H., Widdrington, Aeklington.**

**CATTLE**—Aberdeen Angus. Heifer "*Professional Beauty II*" (20688), bred by E. Liddell, Newton-by-the-Sea, May 7th, 1891; 1st, £15, Royal Chester; 1st, £3, Northumberland; 2nd, £5, Yorkshire, and 1st, £3, Tyneside. "*Friscoia*" (20631), May, 1891; 8rd, £2, Northumberland and 8rd, Tyneside. "*Dog Daisy*" (17719), bred by T. Dixon, Junr., Leadhill, February 8, 1891; 1st, £2, Felton. "*Dog Daisy II*," January 31, 1892; 1st, £2, Felton. "*Miss Binks*," bred by owner, January 14th, 1892; 1st, £6, Leeds. Cross Shorthorn Galloway Steer, bred by E. Liddell, May 4th, 1890; 2nd, £4, Leeds.

**LANGLANDE, Major J. S., Longwood, Rugby.**

**HUNTERS**. Gelding "*Burgundy*," bred by Major Blacker, Kildare, 6 years; 1st, £30 Royal; 2nd, £7, Peterborough. "*Lord Thorskill*," bred by J. McCormack, Co. Galway, 6 years; 8rd, £3, Exeter. "*Lathe Key*," bred in Ireland, 5 years; 8rd, £5, Taunton. "*English Times*," bred in North Devon, 5 years; 2 first's, £40, Bath. Mare "*Kilmurray*," bred in Ireland, Aged; 2nd, £5, and Reserve Number, Hereford.

**LAW, ARTHUR B., Mains of Sanguhar, Forres, N.B.**

**CATTLE**—Shorthorn. Bull "*Sanguhar*" (63336), bred by owner, calved March 16th, 1891; 1st and Champion, Aberdeen; 3rd, Highland; R. No., Great Yorkshire. Bull "*Kinellar*" (63768), bred by S. Campbell, Kinellar, calved March 18th, 1891; 3rd, Aberdeen. Heifer "*Graceful Queen*" (Vol. xxxviii., p. 463), bred by owner, calved April 15th, 1891; 1st, Nairn. Heifer "*Dandy Grace*," bred by owner, calved February 12th, 1891; 2nd, Nairn.

**LEATHES, WM., Warr Paur, Ruthin.**

**SHEEP**—Herdwick. Ram "*Snowdon*," March 22nd, 1892; H. C., Royal Chester. Three Ewes, March, 1892; 2nd, £5, Royal Chester. Ram "*Tom's Favourite*," April, 1892; 1st, £4, Blackpool. Ram "*Mosel Fawna*," April, 1892; R. No., Blackpool. Three Ewes, March, 1892; 2nd, £2, and 3rd, £1, Blackpool. Ram "*Monte Carlo*," March 11th, 1892; 2nd, £2, Blackpool. Three Ewe Lambs, March, 1892; 1st, £3, Blackpool; and 1st, Whitehaven. All bred by owner.

**LETT, JOHN, Cleveland Stud Farm, Rillington, York.**

**HORSES**—Hunter. Mare "*Queenie*," bred by owner, 1890; Premium £20, London; 1st, £10, Lincolnshire; 1st, £5, Malton; 2nd, £10, Royal. "*Lioness*," bred by Mrs. Bristow, 1898; Hunters' Improvement Medal, Yorkshire. "*Hilarity*," bred by Captain Dixon, 1897; 1st, £10, Malton. "*Frative*," bred by owner, 1892; 3rd, £5, Yorkshire. Hackney—Stallion "*Hafas*" (4295), bred by Mrs. Byass, Thixendale, York, 1890; 2nd, £10 and Gold Medal, Islington 2nd,

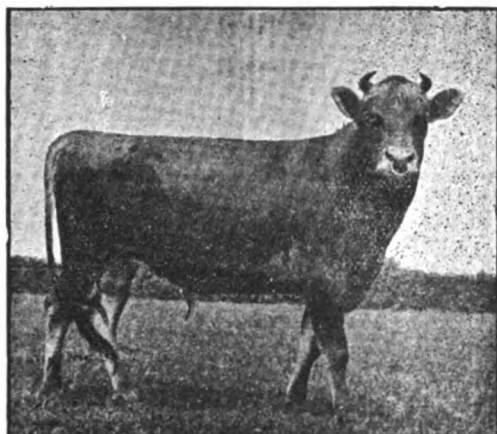
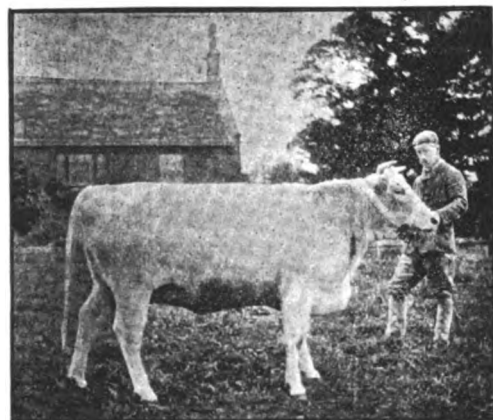
**PIGS**—Large White. Boar "*Harrietfield King*" (2673), born June 1st, 1891; 2nd, Highland; 1st, Kelso. Sow "*Harrietfield Princess*" (4616), born 4th November, 1891; 1st, St. Boswell's. Sow "*Harrietfield Lady Howard II.*" (3142), born February 3rd, 1890; 2nd, Highland; 1st, Duns, Kelso, and Jedburgh.

**LONG, GEORGE, Ogbourne, St. Andrew, Marlborough.**

**CATTLE**—Guernsey. Bull "*Oricle*" (494), January 10th, 1891; 1st, £15, Bath and West; 1st, £5, Wilts. Heifer "*Miss Ethel III.*" (1960), April, 1891; 2nd, £5, Bath and West. Heifer "*Gold Fairy*" (2164), September, 1892; 2nd, £5, Royal Counties. Bull "*Rusticus*" (581), March, 1892; 2nd, £3, Wilts. Heifer "*Fan XI.*" (2137), February, 1892; 2nd, £3, Wilts. Heifer "*Painted Lady*" (2968), February, 1892; 3rd, £2, Wilts. All bred by owner.

**LOWNDES, T. & SON, Rolleston Park, Tutbury, near Burton-on-Trent.**

**HORSES**—Shire. Stallion "*Eastern Harold*" (18990), bred by Francis Charlesworth, Calwick, Ashbourne, foaled 1890; 1st, and R. for Cup, London; 1st, Peterborough; 1st and R. for Cup, Royal Chester; 1st, Sandbach; 1st, Lichfield; 1st, Birkenhead. Mare "*Eastern Model*," aged 6 years, with foal at foot; two 1st, Hoarcross; two 1st, Belper; 1st and Silver Medal, Derby. Her Filly foal, won 1st and Special, Staffs.; 3rd, Belper; 3rd, Derby; 2nd, Tutbury; 3rd, Ashbourne. "*Rolleston Harold*"; 2nd, Tutbury. "*Rolleston Senatrix*"; 3rd, Tutbury.

**"DEVOTION'S LAD."***The Property of Richard J. Pope, Esq.***CAMPANULA"***The Property of C. Howard Taylor, Esq.*

**£10, Royal. Coaching**—Stallion "*First Favorite*," bred by M. Rudsdale, Danby, Groomont, Yorks., 1891; 1st, £20, Yorkshire; 2nd, £15, Malton; 2nd, £2, Doncaster; 2nd, £10, Royal. "*Emperor*" (1097), bred by — Welford, 1889; 3rd, £5, Yorkshire. Shire—Mare "*Ruby*," bred by owner, 1890; 2nd, £2, Malton.

**SHEEP**—Leicester. Bred by owner. Ewe Lambs; 1st, £2, Ayrton; two 2nd, £3, Malton. Ram Lambs; 1st and 2nd, £5, Malton. Fat Ewes; 2nd, £1, Malton.

**LEWIS, A., Church Farm Stud, Heacham, Lynn.**

**HORSES**—Hackney. Stallion "*Stylish Shot*" (4023), June 1st, 1890; 2nd, £15, London Hackney; 1st, £12, Norwich; 1st, £5 and Silver Cup, Dereham; 1st, £5, Lynn; 3rd, £5, Royal. "*Noble Shot*" (2900), bred by T. Leeds, Whitwell, Reepham; 2nd, £8, Norwich. "*Tip Top Shot*" (1937), bred by W. Dodd, Gayton; 1st, Gold Medal and Champion Cup, £15, London (May). "*Harefoot*" (3657), bred by F. T. Cooke, Flitcham; 3rd, £10, London Hackney. "*Heacham Model*" (3663), bred by H. Hudson, Bardwell; 3rd, London Hackney. Mare "*Lady Tip Top Shot*" (4201); 2nd, Norfolk County. "*Lady Ecliping Shot*" (4068); 1st, Lynn. "*Lady Linden*" (2206); 2nd, Lynn; Foal, Mare, Sire "*Tip Top Shot*," Dam "*Lady Grace*" (2194); 2nd, Lynn.

**LOGAN, SOMMER, Harrietfield, Kelso, N.B.**

**SHEEP**—Half-bred. Shearling Tup; 2nd, £3, and Cup, Kelso; 2nd and 3rd, £4, Highland.

**LUCAS, Lt.-Col., Ashlyns Hall, Great Berkhamstead.**

**CATTLE**—Red Polled. Heifer "*Ashlyn's Phyllis*" (7647), bred by owner, calved January 4th, 1892; 1st, £5, Suffolk; H. C., Essex; R. and H. C., Royal Chester. Cow "*Donna Anna*" (6410), bred by owner, calved January 5th, 1899; 2nd, £8, Suffolk; 2nd, £3, Essex; C., Royal Chester. Steer, calved January 1st, 1891, bred by owner; Sire "*Don Carlos*" (659), Dam "*Annine*" (4764); 1st and Cup, £25, for best Redpoll, Norwich; 1st and Cup, £25, for best Redpoll, Smithfield.

**MERRIDE, WILLIE, Fernhill, Forth River, Belfast.**

**HORSES**—Hunter. "*Tally Ho*," 1st, £5, Newtownards; 1st, £5, Banbridge; 1st, £5, Lisburn; 1st, £5, Belfast; 2nd, £4, Armagh.

**MAPLE, Sir BLUNDELL, M.P., Childwick Bury, St. Albans.**

**CATTLE**—Shorthorn. Steer, under 3 years; 1st, £10, and 100 Guinea Challenge Cup, Watford. Steer, under 2 years; 1st, £7, 2nd, £3, Watford. Cross Bred Steer; 1st, £7, Watford. Any Distinct Breed; 1st, £7, Watford. Steer, under 3 years; 2nd, £15, Smithfield. Steer, over 3 years; 1st and 2nd, St. Albans. Under 3 years; 1st, St. Albans. Aberdeen Angus. Under 4 years; 1st, £25, Smithfield.

**SHEEP**—Cross-bred. Aged 23 months; 1st, £4, and 2nd, £2, Watford. Lambs; 1st, £4, Watford. Single Sheep, aged 24 months; 1st, £2 2s., Watford. Fat Wethers, under 23 months, 1st, £10, and 2nd, £5, Bingley Hall; 1st, £15, and 2nd, £10, Smithfield. Hampshire Downes.—1st, £4, Watford.

**MARTON, G., Muscotes, Kirby Moorside.**

**HORSES**—Hunter. Gelding "*First Flight*;" foaled 1889—1st, £25, Doncaster; 3rd, £5, Northumberland. Filly "*Michief*;" 1890—3rd, £5, Royal Chester; 2nd, £1, Ayrton; 1st, £2, Rydale; 1st, £3, Easingwold. Filly "*Sweet Briar*;" 1891—2nd, £1, Ayrton; 1st, £2, Rydale; 1st, £2, Easingwold; 2nd, £1, Northallerton. Brood Mare "*Sinneress*;" 1890—2nd, £10, Doncaster; 1st, £5, Stokesley; 2nd, £2 10s., Northallerton. Brood mare "*Marigold*" (596); 1888—3rd, £1, Malton; 1st, £3, Rydale; 1st, £3, Easingwold; 1st, £2, Ayrton. Colt "*Warlike*;" 1893—1st, £2, Stokesley; 1st, £2, Northallerton. All bred by owner except "*Sinneress*."

**MASKELL & STRICKLAND, Warren House, Brandsby, Easingwold.**

**CATTLE**—Shorthorn. Bull "*Roses Robin*," bred by owners; 4th, £10, Birmingham; 1st, £4, Wharfedale; 1st, £4, Driffield; 2nd, £3, Notts. Bull "*Duke of Brandsby*;" 1st, £3, Wharfedale; 1st, £4, Driffield; 1st, £5, Malton; 2nd, £2, Notts.; 2nd, £10, Yorkshire. "*Brandsby Rose*" "*Roses Robin*," and "*Duke of Brandsby*" (as a group); 3rd, £10, Yorkshire.

**SHEEP**—Leicester. Ram Lambs (three); 2nd, £5, Royal Chester. Ram Lamb; 3rd, £1, Malton.

**MATTHEWS, A. B., Newton Stewart, N.B.**

**HORSES**—Clydesdale. Stallion "*Top Knot*" (6360), bred by G. M. McCormick, foaled May 9th, 1886; 1st, £5, Newton Stewart; Premium Horse for season, Biggar and Peebles District; 1st, £4, as sire of the best group of five yearlings off one Stallion, and 1st, £2, as sire of best five, two-year-olds, Newton Stewart. Filly by "*Top Knot*," foaled July 4th, 1893; 3rd, Newton Stewart; 3rd, Dumfries. Colt by "*Lawrence*," foaled May, 1893; 3rd, Dumfries; 2nd, Newton Stewart. Hackney Stallion "*Who Goes There*," bred by H.R.H. The Prince of Wales, foaled May 14th, 1892; 3rd, Ayr; 1st, Newton Stewart.

**MEIN, JAMES A. W., Hunthill, Jedburgh, N.B.**

**SHEEP**—Cross. Leicester-Cheviot. 1st, £4; two 2nd, £4, and V. H. C., Newcastle; two 1st, £16; 2nd, £4; 3rd, £3, and V. H. C., Highland; two 1st, £6; 2nd, £1; 3rd, 10s., East Berwickshire; 1st, £3; two 2nd, £4, and two V. H. C., Kelso; three 1st, £5; 2nd, 10s., Jedforest.

**CATTLE**—Shorthorn. Cow "*Amelia XLa*," 1st, £2, Jedforest.

**MILES, CHARLES, Tatenhill, Burton-on-Trent.**

**HORSES**—Hunter. Brood mare "*Lavinia*" (74), bred in Ireland, 1879; Record 1884—R. and H. C., Staffordshire. 1886—2nd, Derbyshire; H. C., Staffordshire. 1886—1st, Shropshire and West Midland. 1887—3rd, Trent; 1st, Hoar Cross. 1888—R. and H. C., Trent; 1st, Hoar Cross; 1st, Staffordshire; 3rd, Derbyshire. 1889—1st (Open Class), and 1st, Tenant Farmers Class, Earl of Harrington's Show. 1890—3rd, Royal Plymouth; 1st Shropshire and West Midland; 1st, Hoar Cross; 1st, Derbyshire; 2nd (Open Class), and 1st, Tenant Farmers Class, Earl of Harrington's Show. 1891—3rd, Tenant Farmers Class, Earl of Harrington's Show. 1892—1st, Hoar Cross; 1st, Derbyshire; 2nd, Tutbury. 1893—1st, Earl of Harrington's Show, and 1st, Tutbury. Filly "*Queen May*," bred by owner. May 14th, 1893; 1st, Earl of Harrington's Show; 2nd, Tutbury. Colt "*Lord Peru*," bred by owner, March 3rd, 1892; 1st, Equal Premium, £15, and £5 for breeder, Islington. Gelding "*Prince Peru*," bred by owner, May 5th, 1891; 1st, Premium, £15, and £5 for breeder, Islington; H. C., Bath and West; 2nd, Peterborough; 2nd, Hoar Cross; 2nd, Tutbury; 2nd, Derbyshire.

**MILLS, PHILO Z., Ruddington Hall, Nottingham.**

**HORSES**—Shire. Mare "*Moonlight*" (13012), bred by J. Yates, Brailsford, 1886; two Specials; four 1st; one 2nd; two 3rd; value £62 5s., at Nottingham, Peterborough, Lincoln, Leicester, Derby, Chesterfield, and Oakham. Mare "*Rutell Star*" (16345), bred by Arthur Gibson, Ruddington, 1890; one 1st; three 2nd; value £19, at Lincoln, Derby, Chesterfield, and Oakham. Stallion "*Governman*" (14648), bred by Arthur Gibson, 1891; one 1st; one 2nd; one 5th; value £20, at Nottingham, London, and Yorkshire. Mare "*Blaydon Mistle*" (5735), bred by W. F. Watson, Dorking, 1886; one 3rd, £2, Nottingham.

**CATTLE**—Shorthorn. Bull "*Marlborough*," bred by owner, 1892; Special, £20 and 1st, £5, Nottingham. Bull "*Cambridge Waterloo Duke*," 1892; 2nd, £3, Derby. Heifer "*Preference*," bred by Arthur Gibson, 1890; Special and four 1st, value £30, at Nottingham, Lincoln, Oakham and Leeds. Heifer "*Royal Charity*," bred by owner, 1892; one 1st, three 2nd, one 3rd, value £21, at Nottingham, Lincoln, Leicester, Derby and Oakham. Heifer "*Duchess of Burgandy*," bred by owner, 1892; 1st, £5, Nottingham.

**SHEEP**—Shropshire. Fifteen prizes, value £55, at Nottingham, Peterborough, Derby, Birmingham and London.

**PIGS**—Berkshire. Twenty prizes, value £68 10s., at Nottingham, Peterborough, Lincoln, Leicester, Yorkshire and Derby. Summary:—Horses, £102 5s.; Cattle, £84; Sheep, £55; Pigs, £68 10s.; total for year, £304 15s.

**MITCHELL, CHARLES, Middleton-on-the-Wolds, Hall.**

**HORSES**—Hackney. Stallion "*Enthorpe Prince*" (4252), bred by owner, foaled May 28th, 1891; 2nd, £15, Hackney Show; 2nd, £10, Royal Chester; 3rd, £5, Great Yorkshire.

**MONTFOIRE, Mrs., Worth Park, Crawley.**

**CATTLE**—Guernsey. Cow "*Marguerite*" (1382); 1st and Champion, Bath and West; 1st, Royal Counties; 1st, Royal Chester; 1st, Essex; 1st, Tunbridge Wells; 1st, Dairy Show. Cow "*Fortuna*" (758); 1st, Wilts.; 1st (as one of a pair with "*Marguerite*"); Bath and West. Heifer "*White Star*" (2354); 2nd, Tunbridge Wells; 3rd, Royal Counties. Bull "*Sir Francis II.*" (440), 2nd, Wilts.

**MORRIS, ERNEST E., Stapleton Castle, Prestatyn.**

**CATTLE**—Hereford. Bull "*Royal Blood III.*" (16955), bred by owner, calved January 1st, 1892; 1st, £5, Hereford Breeders. Bull "*Silk Merchant*" (16992), calved January 2nd, 1892; R. No., Hereford Breeders. Bull "*John Bull*" (16782), calved December 10th, 1891; 1st, £5, Hereford Breeders. Cow "*Pansey*" (Vol. xxi, p. 503), calved April 10th, 1886; R. No., Bingley Hall.

**MORTON, N., Brookville, Ballymena.**

**HORSES**—Hunter. Filly "*High Style*," 8 years; 3rd, Belfast. Gelding "*Successor*," 4 years; 3rd, Belfast. "*Q. C.*" 5 years; 1st and Champion Cup, Belfast; 2nd, Ballymena. Mare "*Somebody's Darling*," 5 years; 1st, Ballymena; 2nd, Armagh; 1st, Ballynafeigh; 2nd, Lisburn. Gelding "*Leotard*," 5 years; 2nd, Ballymena; 1st and Challenge Cup, Armagh; 1st, Armagh (2nd day); 1st and Mrs. Barbour's Cup, Lisburn; 2nd, Newtownards. "*Pigron*," 5 years; 1st, Armagh; 1st, Dublin. "*Lawman*," 5 years; 2nd, Armagh; 2nd, Lisburn. "*Jack Scarlet*," 2nd, Armagh; 2nd, Ballynafeigh; 1st and Challenge Cup, Lisburn; two 2nd, Dublin; 1st, Newtownards. "*Masterpiece*," 4 years; 1st, Lisburn. "*Gullidacker*," 4 years; 1st, 2nd and 3rd, and Champion Cup, Dublin; 2nd, Lisburn. "*Ballygarvey*," 5 years; 4th, Newtownards. Hackney—Mare "*Lady Madeline*," 1st and 2nd, Ballymena; 1st, Ballynafeigh. Gelding "*Rainbow*," 1st, Ballymena; 2nd, Lisburn.

**NAPER, JAMES L., Loughcrew, Oldcastle, Co. Meath.**

**SHEEP**—Shropshire. 3 Ewes, born March, 1892; 2nd, £10, Chester. 3 Ewes, born March, 1892; 1st, £5, Dublin. Ram "*Plymouth Rock*" (5435), born March, 1889; 1st, £5, Dublin. Ram "*Mount Edgumbe*" (6987), born March, 1891; 2nd, £3, Dublin. Ram, born March, 1892; 2nd, £6, Dublin. 3 Ewes, born 1888 and 1890; 1st, £5, Dublin. All bred by owner.

**NICHOLSON, ARTHUR, Highfield Hall, Leek, Staffs.**

**HORSES**—Shire. Stallion "*Rokby Friar*" (14827), bred by John Parnell, Rugby, April, 1891; 3rd, £10, London Show and H. C., Royal Chester.

**OAKLEY, W. E., The Plas, Tan-y-Bwlch, North Wales.**

**CATTLE**—Welsh. Bull "*Rhaidr Du*" (257), January 7th, 1891; 1st, £15 and R. for Champion, Royal Chester. Bull "*Welsh Fusilier*" (Vol. v.), February 7th, 1892; R. No., Royal Chester. Cow "*Gen*" (734), January 18th, 1888; 2nd, £10, Royal Chester. Heifer "*Bog Myrtle*" (734), February 7th, 1890; 3rd, £5, Royal Chester; 1st, £3 and Champion Silver Medal, Bala. Heifer "*Tara*" (Vol. v.), January 6th, 1892; 2nd, £5, Royal Chester; 1st, £3 and Champion Silver Medal, Bala. Heifer "*Mair V*" (Vol. v.), February 9th, 1893; Silver Medal, Bala. Heifer "*Llan Mair*" (Vol. v.), January 6th, 1891; 1st and Breed Cup, also Thorley's prize, £25, Smithfield.

**PAGHAM HARBOUR COMPANY, Selsey, Chichester.**

**SHEEP**—Southdown. Bred by owners. Ram Lambs (three), 2nd, £5, Royal Chester. Shearling Ewes (Pen of ten); 1st and Southdown Challenge Cup, £25, Southdown Association's Show, Chichester. Shearling Rams (three); 1st, £10, Chichester. Ten Sheep bred by this Company were exhibited at Chicago, taking two 1st, four 2nd, two 3rd, and one 4th. A Four-tooth Ram, and a Four-tooth Ewe, were R. Nos. for Ram and Ewe Championships.

**PARKER, W., Great Stannay Hall, Sutton, Chester.**

**HORSES**—Hunter. Filly "*Cigarette*," bred by owner, foaled May, 1890; 1st, £5, 3rd (Harness), £1, Wirral; 1st, £10, Tarporley. Filly "*Dora*," bred by owner, May, 1892; 2nd, £3, Wirral; R. No., Lancaster. Filly "*Jubilee*," bred by owner, May, 1892; 3rd, £5, Royal Chester; 1st, £10, Cheshire; 1st, £5, Wirral.

**SHEEP**—Leicester. Three 1st, and two 2nd, Cheshire; one 1st, and two 2nd, Wirral; five 2nd, Altrincham.

**PARRY, GODFREY, Carrog, Corwen, North Wales.**

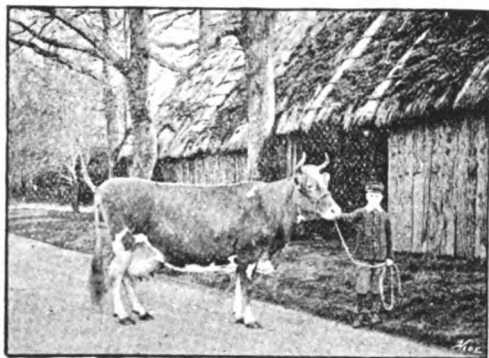
**SHEEP**—Welsh. Three 1st and R. No., £30, Royal Chester; two 1st, £4; two 2nd, £2 5s.; 3rd, 15s., Vale of Conway; two 1st, £4, Merioneth; two 1st, £4, 2nd, £1, Oswestry.

**PANSONS, Mrs., Ashhurst Place, Langton, Tunbridge Wells.**

**CATTLE**—Guernsey. Record 1888—bull "Conservateur" (170), bred by F. Bisson, Guernsey, calved February 21st, 1886; R. and V. H. C., Tunbridge Wells. Record 1889—bull "Conservateur," H. C., Royal Windsor; R. and V. H. C., Tunbridge Wells. Bull "Conservateur III." (234), bred by owner, calved December 19th, 1888; C., Tunbridge Wells. Record 1891—bull "Harrow" (477), bred by the Express Dairy Co., calved July 26th, 1888; 1st, £5, Oxfordshire; 2nd, £3, Essex; 2nd, £10, Bath and West; 2nd, £3, Tunbridge Wells. Cow "Eileen" (332), bred by W. Hardy, Guernsey, calved April 2nd, 1884; 2nd, £2, Oxfordshire; 2nd, £4, Devon; H. C., Peterborough; H. C., Tunbridge Wells. Heifer "Orange Blossom" (1992), bred by N. Robin, Guernsey, calved June 4th, 1894; 1st, £4, Devon. Bull "Sir Bevis" (360), bred by the Express Dairy Co., calved February 7th, 1893; C., Peterborough. Record 1892—bull "Harrow," H. C., Royal Counties; R. and V. H. C., Tunbridge Wells. Heifer "Orange Blossom II." (1993), bred by owner, calved August 29th, 1891; C., Royal Counties; 2nd, £2, Tunbridge Wells. Cow "Beauty of the Island" (1792), bred by J. Froome, Guernsey, calved February 16th, 1888; C., Tunbridge Wells. Heifer "Lady Lovely II." (1932), bred by owner, calved October 3rd, 1890; H. C., Tunbridge Wells. Record 1893—bull "Sir Bevis," 2nd, £3, Tunbridge Wells. Heifer "Louise III." (2213), bred by owner, calved Nov. 30th, 1892; 1st, £5, Tunbridge Wells.

**PEARCE, JOHN, Mares, Lincoln.**

**SHEEP**—Lincoln. Fat Wether, under 2 years; 1st, £15, and Breed Cup, Smithfield. Fat Wether Lambs; 1st, £15 Smithfield. Fat Ewes, above 3 years; 2nd, £5, Smithfield.

**"MARGUERITE,"**

The Property of Mr. Montifore, Worth Park, Crawley.

"Continental Lass IV.," bred by Paul Amy, Jersey, January 29th, 1889; 1st, £7, East Sussex; 1st, £7, Local Class, East Sussex; 2nd, £3, Tunbridge Wells; Reserve, Tring. Heifer "Bellona V.," bred by J. Godeux, March 2nd, 1891; 2nd, £3, Oxfordshire; 1st, £10, Royal Counties; 3rd, £5, Royal Chester; 2nd, £5, Hastings; 1st, £5, Local Class, Hastings; Heifer "Belle de Radier's Pet," bred by F. Le Brocq, 20th March, 1891; 2nd, £3, Local Class, Hastings. Heifer "Egyptian Darkey III.," bred by J. A. Gibant, 1st April, 1892; 2nd, £3, Hastings.

**PORFARLINGTON, Earl of, Came House, Dorchester.**

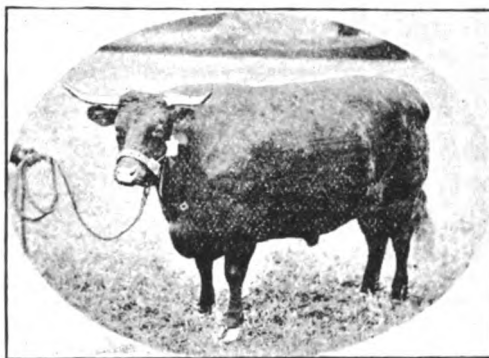
**HORSES**—Hunter. Gelding "Snordon," aged; 1st, Limerick; 1st, Kildare; two 1st and one 2nd, Dublin.

**POWELL, Miss, Maesgwynne, Whitland, S. Wales.**

**HORSES**—Hunter. Gelding "Roderick Dhu," bred by owner, 1890. Record 1892—1st, Carmarthen and 2nd, Bath and West. Record 1893—3rd, Royal Chester; 2nd, Carmarthen.

**PRATT, C. A., Rushford, near Evesham.**

**CATTLE**—Shorthorn. Cow "Dowager III.," February, 1897; 1st, £15, Royal Chester; 1st, £10 and R. and H. C., Warwickshire; R. and H. C., Moreton-in-Marsh. Cow "Dairymaid," March, 1896; 2nd, £10, Royal Chester. Heifer "Dowager V.," October, 1891; 1st, £10; 1st, £5 and H. C. and R., Warwickshire; 2nd, £2, Moreton-in-Marsh; H. C. and R., Dairy Show. Heifer "Dowager VI.," May 2nd, 1892; 1st, £5, Warwickshire; 2nd, £2, Moreton. Heifer "Stranberry," March, 1892; 1st, £5, Warwick H. C. and R., Moreton; all bred by exhibitor.

**DEVON OX,**

The Property of John Wortley, Esq., Frettenham, Norwich.

**PERCIVAL, R. & R., Burgh-by-Sands, Carlisle.**

**HORSES**—Clydesdale. Mare "Flash Girl," bred by Marshall, Stranraer, June 15th, 1888; 1st, £20, Royal Chester; 1st, £15, Newcastle; 1st, £5, Carlisle; 1st and Special, £4, Burgh; 1st and Special, £3, Dalston; 1st and Special, £1, Aspatria; 1st and Special, £7, Wigton; 1st and Special, £4, Sillioth; 1st and Special, £10, Brampton. Mare "Lyonesse," bred by owner, April 14th, 1891; 1st, £2, Dalston; 1st, £2, Burgh; 1st and Special, £3, Wigton; 1st, £3, Brampton. Mares "Flash Girl" and "Scottish Rose;" three 1st prizes for Draught Pair.

**PHILIP, D. W., The Ashes, Whitacre, Colehill.**

**PIGS**—Tamworth. Bred by owner; Boar "Whitacre Goldfinder" (2973), born, January 14th, 1892; 1st, £7, Bath and West; 3rd, £3, Royal Chester. Gilts; 1st, £10, Royal Chester; 2nd, £3, Bath and West. Fat Pigs; two 2nd, £10, and R. No., for Breed Cup, Smithfield.

**PINNOCK, WILLIAM, Littleworth House, Wantage.**

**PIGS**—Berkshire. 1st and Champion, Chicago; 1st and Champion, Oxfordshire; 1st and Champion over all breeds, Bath and West; 1st, Royal Counties; 1st and 2nd, Royal Chester; 2nd, Smithfield, &c.

**POPE, RICHARD J., Baresford Manor, Plumpton, Sussex.**

**CATTLE**—Jersey. Bull "Devotion's Lad," bred by J. C. Grandin, Jersey, March 1st, 1891; 1st, £10, Royal Chester; 1st, £5, Oxfordshire; 1st, £10, Royal Counties; 1st, £5, Tunbridge Wells; 1st, £5, Tring; 1st, £7, East Sussex; 1st, £5, Local Class, East Sussex; also two Champion Silver Cups. Cow "Caroline's Maid," bred by Philip Du Val, Jersey, April 24th, 1885; 1st, £10, Royal Counties. Cow

**PRATT, P. P., Erynlithrig Stud Farm, St. Asaph.**

**HORSES**—Thorough-bred. Stallion "Eglamore," bred by Charles Perkins, 1884; Queen's Premium, 1891-2-3, £550; Gold Medal, Royal Chester; 1st, Wirral; 1st, Altrincham. Shire Stallion "Rebel Chief of Hothfield," bred by Lord Hothfield, 1891; 1st, Carnarvon. Mare and Foal "Borden Empress," 1888; 1st, Carnarvon. Team "Kol" and "Borden Empress," 1st, Carnarvon. Stallion "Lake Commoner," bred by Gooch Bros., 1889; 2nd, Carnarvon. Mare and Foal "Lake," 1st, Llanrwst. Team "Like" and "Kol," 1st, Llanrwst. Filly "First Lore," 1892; 1st, Llanrwst. Filly "Helen," 1892; 2nd, Llanrwst.

Hunter. Gelding "Jim Crack," bred by Denis Burke, 1887; 1st and 3rd, Carnarvon. Gelding "The Doctor," 1892; 1st, Llanrwst; 2nd, Wirral. Mare "Shamrock," 1892; 2nd, Llanrwst. Mare and Foal "Maioir Galway," 1883; 1st, Llanrwst. Hackney Stallion "Maringo," bred by —, Jackson, York, 1888; 2nd, Carnarvon.

**RATRAY, DAVID N., Gortnaskeh, Ballybanion, Co. Kerry.**

**CATTLE**—Kerry. Bulls "Aime Jupiter," bred by R. Barter, St. Ann's, Cork, calved March 25th, 1891; 1st, £6. "Gort Zulu" (140), bred by owner, calved November, 1891; 3rd, £2. "Gort Victor" (206), breeder unknown, calved 1890; R. No. and H. C. Heifers "Gort Belle," breeders unknown, calved 1891; 1st, £5. "Gort Moll," calved 1891; 3rd, £1. "Gort Flora," calved 1891; R. No. and H. C. "Gort Peep," calved 1890; R. No. and H. C. "Gort Jenny," calved 1890; H. C. Dexter Kerry. Bull "Paddy Blake" (69), bred by D. P. O'Sullivan, Kerry, calved May, 1889; 3rd, £1. "Aime Jupiter," "Gort Belle," "Gort Peep" and Cow "Lady Eileen" (517), were the Reserved Cattle for the Leinster Cup, value £155. All the above prizes were taken at the Royal Dublin Spring Show.

**RHODES, WILLIAM, Lundholme, Westhouse, near Kirkby Lonsdale.**

**SHEEP**—Wensleydale. Ram Lambs (three), bred by owner, lambed March 1st, 1893; 2nd, £5, Royal Chester. Shearling Ewes (three), lambed March 1st, 1893; 1st, £10, Royal Chester. Shearling Ram "Ideal," lambed March 1st, 1893; H. C., Royal Chester. Shearling Ewes (three), March 1st, 1893; 1st, £10, Great Yorkshire. Ram "Matchless" (216), March 1st, 1891; 1st, £1 10s, Lancaster; 1st, £1, Kendal; 1st, £1 10s., Barton and Milnthorpe. Ram "Wellington" (263), bred by J. Waller, Low Thorsby, Aysgarth, March 1st, 1891; 1st, £2, Skipton; 1st and Special, £5, Settle; 1st and Special, £3 5s., Bentham; 1st and Champion, £2, Hellfield. Besides these prizes, this flock has in previous years taken twenty 1st, twenty-four 2nd, and three Silver Medals.

**RICHARDS, JOHN, Llynclwys, Oswestry.**

**HORSES**—Shire. Stallion "Revival" (13508), foaled, 1890; 1st, £10, Shropshire and West Midland; 2nd, £1, Oswestry. Mare "Lady Rosema" (Vol. xiii.), foaled, 1890; 2nd, £1, Oswestry. Mare "Rosette" (17308), foaled 1892; H. C., Royal Chester and Shropshire. Mare "Rosemund" (17295), foaled 1892; H. C., Shropshire.

**RIGDEN, H., Lyminge, Hythe.**

**SHEEP**—Kent or Romney Marsh. Bred by owner. Exhibited at four principal Kent Shows, and at Smithfield. Total value of prizes £71 2s.

**RISDON, T. H., Washford, Taunton.**

**CATTLE**—Devon. Steer, bred by owner, calved December 15th, 1890; 1st, £25, Smithfield.

**ROBERTSON, JAMES, The Firs, Hatton, Warwick.**

**CATTLE**—Kerry. Breeders unknown. Cow "Molly," born 1889; 1st, £5, Cow "Nancy," born 1888; 2nd, £3, Birmingham Dairy Show. Bull "Royal Windsor" (1840), born 1890; 1st, £10, Bath and West; 2nd, £5, Royal Chester. Cow "Shamrock," born 1889; 2nd, £5, Royal Chester. Dexter Kerry.—Heifer "Pansy," born 1890; 4th, £1, Birmingham Dairy Show. Cow "First Love," born 1890; 3rd, £2, Bath and West; 1st, £10, Royal Chester. Heifer "Nemophila," born 1891; 1st, £10, Royal Chester. Heifer "Daisy Belle," bred by H. D. D. Betteridge, Drayton House, Wallington, born 1891; 2nd, £5, Smithfield.

**ROBESON, GEORGE, Springwalls, Coldstream.**

**SHEEP**—Border-Leicester. Family class (two Ewes, two Gimmers, one Tup, and one Lamb); 1st, £5, Kelso. Ewes; 2nd, £4, Highland; 1st, £2, Duns; 1st, £4, Kelso. Gimmers, H. C., Highland; 1st, £2, Duns; H. C., Kelso. Tup Lamb, 1st, £2, Duns.

**ROBINSON, WM., Willington Manor, Bedford.**

**HORSES**—Shire. Stallion "Wilful George," bred by owner, 8 years; 2nd, £10, Bedford.

**SHEEP**—Crossbred. Ram, bred by owner, 21 months; 3rd, £5 and R. and H. C., Smithfield; R. and H. C., Bingley Hall.

**ROBSON, JOHN, Newton, Bellingham.**

**SHEEP**—Cheviot. Two 1st, Royal Chester; one 1st, two 3rd, Newcastle; 1st and 2nd, Highland; 1st and 2nd, Kelso; 4th and 6th, Coquetdale; two 4th, Bellingham; 2nd, Smithfield. Black-faced, two 1st, Royal Chester; two 1st, one 2nd, Newcastle; 1st and 2nd, Highland; 1st, Coquetdale; two 1st, Bellingham.

**HORSES**—Hunter. Brood Mare "Ruby," 1st, Coquetdale; 1st, Bellingham. Foal "Holystone," 2nd, Coquetdale.

**ROBSON, JOSEPH, Bartree House, Cockerton, Darlington.**

**HORSES**—Hunter. Brood Mare "Kathlene," age 8 years; 1st, Darlington; 2nd, Chester-le-Street; 2nd, Durham; 2nd, Bishop Auckland; 1st, Northallerton; 2nd, Sedgefield. Gelding "Pathfinder," bred by Frank Vickers, The Dene, Aycliffe, Durham; V. H. C. and R. No., Royal Chester; 1st and Special, Newcastle-on-Tyne; 1st, Thornaby-on-Tees; 2nd and Special, Darlington; 1st, Durham; 2nd, Bishop Auckland; 2nd; Stokesley; 2nd, Northallerton.

**ROTHSCHILD, The Right Hon. Lord, Tring Park, Tring.**

**CATTLE**—Jersey. Cow "Bayleaf IV." (Reg. ix., p. 25), bred by P. Arthur, St. Saviour's, Jersey, March 11th, 1886; H. C., Bath and West; R. V. H. C., Royal Counties.

Cow "Belle" (Vol. v., p. 182), bred by owner, April 15th, 1890; R. and V. H. C., Bath and West; H. C. and R., Royal Chester; 3rd, £1, 2nd (as one of a pair, see "Crocus"), Hatfield.

Cow "Brebis III" (1898), bred by Thos. Le Suer, St. Brelades, Jersey, May 18th, 1886; H. C., Romford; 3rd, £3, Royal Counties. Cow "Brebis V." (J. J. H. B., 2680), bred by Thos. Le Suer, St. Brelades, Jersey, January 20th, 1887; H. C., Bicester.

Cow "Clemence II" (J. J. H. B., 3141), bred by F. Renault, St. Mary's, Jersey, February 25th, 1888; H. C., Bath and West. Bull "Columbus IV" (4080), bred by owner, April 29th, 1892; 2nd, £3, Bicester; 3rd, £3, Bath and West; C., Royal Counties; 3rd, £1, Hatfield.

Cow "Crocus" (Vol. v., p. 723), bred by owner, April 27th, 1890; H. C., Bath and West; H. C. and R., Royal Chester; 1st, £5 5s., Rlythwood Challenge Bowl, £26 5s., 2nd (as one of a pair), £3, Hatfield.

Cow "Cupida" (Reg. viii., p. 172), bred by owner, May 10th, 1891; H. C., Bath and West; H. C. and R., Romford; 1st, £5, Hatfield.

Bull "Flora's Lad" (4099), bred by owner, April 26th, 1891; 2nd, £3, Bicester; 1st, £7, Romford; 2nd, £5, Royal Counties; 1st, £15, Royal Chester; 2nd, 3rd, Hatfield.

Cow "Gloire de Dijon" (Vol. ix., p. 22), bred by owner, May 29th, 1892; 3rd, £1, Bicester; H. C., Bath and West; V. H. C., Romford; H. C., Royal Chester.

Cow "Golden Cloud" (Vol. ix., p. 22), bred by owner, July 10th, 1892; H. C., Royal Counties.

Cow "Jessamine" (Vol. ix., p. 25), bred by J. Brutton, Yeovil, June 10th, 1892; H. C., Bath and West; V. H. C., Royal Counties; R. H. C., Royal Chester; R. H. C., Hatfield.

Cow "Lily Broken III" (Reg. ix., p. 92), Mr. Arthur, St. Mary's, Jersey, May 25th, 1886; Reserved, Bicester.

Cow "Madeira V" (Reg. ix., p. 93), bred by owner, October 16th, 1892; 2nd, £3, Romford; 1st and R. for Champion, £7, Royal Counties; 2nd, £3, Hatfield.

Cow "Music" (Reg. Vol. ix., p. 92), bred by owner, May 20th, 1892; H. C., Bicester; C., Romford.

Cow "Oxford Dahlia" bred by J. P. Marette, St. Saviour's, Jersey, February 8th, 1889; 1st and Champion, £10, Bicester; 1st, £15, Royal Chester; 1st and Silver Cup, £10, 1st (as one of a pair), £5, Hatfield.

Cow "Pontorson" (J. H. B., 1875), bred by J. Gallois, St. Clement's, April 12th, 1886; 2nd, £10, Royal Chester.

Bull "Pontorson's Boy" (4316), bred by owner, April 12th, 1892; 3rd, £1, Bicester; H. C., Bath and West; H. C., Royal Counties; H. C., Royal Chester.

Bull "President Galveston" (4318), bred by owner, July 26th, 1892; 1st, £7, Royal Counties; 1st, £5, Hatfield.

Cow "Regina's Sultana" (7656), bred by P. Ozouf, St. Saviour's, Jersey, October 9th, 1888; H. C. and R., Royal Chester.

Cow "Spot" (J. H. B., 3437), bred by J. Le Moignar, St. John's, Jersey, March 20th, 1886; 2nd and R. for Champion prize, £10, Bath and West; 1st, £7, Romford; 2nd, £5, Royal Counties; 2nd, £3, 1st (as one of a pair, see "Oxford Dahlia"), Hatfield.

Bull "Spot's Lad" (4349), bred by owner, April 9th, 1891; 3rd, £1, Bicester; 2nd, £10, Bath and West; R., Romford; R. V. H. C., Royal Counties; H. C., Royal Chester; 1st and Ex-Champion Silver Cup, £5, Hatfield.

Bull "Spot's President" (4390), bred by owner, April 27th, 1892; C., Bicester; H. C., Bath and West; H. C., Royal Chester.

Cow "Tulip" (P. S. in J. H. B., p. 723), bred by J. P. Marette, St. Saviour's, Jersey, February 18th, 1888; V. H. C., Romford; V. H. C., Royal Counties.

Cow "Wigton II" (Vol. v., p. 750), bred by A. Gautier, St. Saviour's, Jersey, June 12th, 1888; 2nd, £3, Bicester; 3rd, £3, Bath and West; H. C. and R., Romford; V. H. C., Royal Counties.

Cow "Wigton V" (Vol. ix., p. 92), bred by owner, April 16th, 1892; 1st, £5, Bicester; 1st, £10, Bath and West; C., Romford; 3rd, £3, Royal Counties; 1st, £10, Royal Chester; 1st, £5, Hatfield.

**HORSES**—Shire. Stallion "Gipsy King" (Vol. xiv., p. 334), bred by owner; R. H. C., Bicester. Mare "Crennell Diamond" (Vol. xiii., p. 354), bred by Jos. Pearce, Orslow Manor, Salop; H. C., Bicester.

Mare "Bravery," bred by W. Flowers, Beachendon; 1st, £7, Bicester. Stallion "Flashwood," bred by J. Waring, Catforth, near Preston; 1st, £7, Bicester; 2nd, £5, Royal Counties; 1st, £10, Romford; 1st, £5, Beds.; 1st, £5 5s., Hatfield; 2nd, £3, Tring.

Mare "Ballam Fan," bred by R. Kirkham, Ballam; 2nd, £5, Bath and West; 3rd, no value, Royal Counties; 1st, £10, Romford; 3rd, £1 10s., Hatfield.

Mare, Filly Foal, out of "Fairy Tale," bred by owner, 1st, £5, Beds. Mare "Vulcan Flower," 2nd, £3, Beds.; 3rd, £1 10s., Hatfield. "Fairy Tale" and Foal (Vol. ix., p. 367), bred by Earl of Ellesmere, Worsley Hall; 3rd, £1 10s., Hatfield.

**SHEEP**—Hampshire Down. Bred by owner; Ram Lamb, 1st, £5, Ewe Lamb, 1st, £5, Ewe Lamb, 2nd, £3, Peterborough; Ram Lamb, 2nd, £2, Bedford; Ewe Lamb, 3rd, £1, Hatfield; Pen of Ewes, 1st, £4, Pen of Ewes, 2nd, £2, Pen of Ewe Lambs, 2nd, £2, Pen of Ewe Lambs, 3rd, £1, Shearling Ram, 2nd, £1, Tring.

**SCHROETER, C. W., Tedfold, Billingshurst.**

**CATTLE**—Aberdeen Angus. Bull "Memphis" (10247), December 14th, 1891; 1st, £10 10s., Horsham; 1st, £5 5s., Guildford. Heifer "Freda" (11750), January 8th, 1892; 1st, £3, Loxwood; 1st, £7, Royal Counties; 1st, £5 5s., Tonbridge; 1st, £5, and Champion Cup, £10 10s., Pulborough; 1st, £5 5s., and Cup, value £5 5s., Redhill. Heifer "Tedfold Favourite" (19749), January 8th, 1892; 2nd, £3, Southampton. Steer "Atick," December 19th, 1890, sire "Strathgala II" (7941), dam "Alice of Tedfold" (11174), 1st, £5, Tonbridge; 1st, £8, and Cup, £21, Horsham; 1st, £8, Redhill; 1st, £5 5s., and Cup, £7 7s., Loxwood; 3rd, £10, Smithfield. All bred by owner.

**HAW, HAMPDEN, 5, Westmoreland Street, Dublin.**

**HORSES**—Trotting. Gelding "Commander," 10 years; 1st, £50, Ashtown; 2nd, £10, Dublin; two 1st, two 2nd, one 3rd; total value £76 8s., Ashtown.

**SMITH, T. V., Ardornish, Morvern, Oban, N.B.**

**CATTLE**—West Highland. Bull "Victor V." (951), bred by owner, calved October, 1888; 1st, £15. Bull "Victor VII." (1067), calved February, 1891; 1st, £15, Champion of Yard, £10, and Silver Medal. "Valentine VI." (1863), calved February, 1892; 1st, £12. "Valentine IX." (1066), calved March, 1892; 2nd, £8. "Valentine VII." (1064), calved February, 1892; 3rd, £4. Cow "Mary of Ardornish" (1242), bred by James Duncan, Greenock, calved June, 1896; 3rd, £4. Heifer "Cruinneag II." (2921), bred by owner, calved March, 1890; 2nd, £5. Heifer "Sgiathach VI." (2929), calved February, 1891; 1st, £10, and Champion Female in Yard, £10. All the above prizes were taken at the Highland Show, Edinburgh.

**SOWERBY, DAVID R., Midland Street, Hull.**

**HORSES**—Hackney. Stallion "Gentleman John" (3624), bred by owner, foaled August 5th, 1890; 3rd, £10, London; 2nd, Royal Chester; 3rd, Doncaster; 2nd, Great Yorkshire.

**SPURLING, H., 14, Lower Brook Street, Ipswich.**

**CATTLE**—Red Poll. Bull "Boss" (3009), October, 1892; 2nd, £3, Suffolk. Heifer "Sholley Nellie VIII." April, 1892; 3rd, £3, Suffolk. Steer, February, 1891; 1st, £7 and R. and H. C., Suffolk Fat Show.

**SHEEP**—Suffolk. Wethers (three) 2nd, £2; Five Lambs, 2nd, £3, Suffolk Fat Show. Ewes, R., Smithfield. Wethers, 2nd, £3; Lambs; Commended, Norwich Fat Show.

**STANLEY, H. J., M.P., Quantock Lodge, Bridgwater.**

**CATTLE**—Devon. Heifer "Moss Rose XV." (11757), bred by exhibitor, April 4th, 1890; 2nd, £4, Somerset; 3rd, £3, Devon; 2nd, £10, Bath and West; 2nd, £10, Royal Chester. Heifer "Princess Margaret" (12461), April 8th, 1891; 1st, £8, Somerset; 3rd, £3, Devon; 2nd, £5, Bath and West; 2nd, £10, Royal Chester. Heifer "Famous III." (13106), April 26th, 1892; 3rd, £3, Somerset; C., Bath and West. Bull "Prince" (3174), May 26th, 1892; 2nd, £3, Devon. Bull "St. Michael" (3187), February 21st, 1892; C., Royal Counties. Heifer "Princess Ethel" (12460), August 24th, 1891; 1st and R. for Champion, £10, Royal Counties. Heifer "Moss Rose XVIII." (13109), August 8th, 1892; 2nd, £2, Dunster. Heifer "Veleeteen VI." (12463), May 21st, 1891; R. No., Dunster.

**SHEEP**—Exmoor Horn. Ram, March, 1891; 2nd, £1, Dunster. Ewes, March, 1892; 2nd, £1, Dunster.

**STEWART, General, The Hon. A., Corsbie, Newton Stewart, N.B.**

**CATTLE**—Shorthorn. Bull "Snow King," bred by —, Norman, Bridge Mill, Wigton, March 10th, 1890; 1st, £3, Ayr; 1st, £1, Stranraer; 1st, 15s., and Champion, Wigton; 2nd, £3, Dumfries. Galloway. Cow "Lucky of Mindork" (11645), bred by James McCarnick, April 26th, 1889; 1st, £1, Stranraer. Cross, Shorthorn—Galloway. "Scot" and "Sable," bred by owner; two 1st, Ayr; 1st, Stranraer; 2nd, Wigton. "Sweep" and "Ayr," 2nd, Wigton. Unnamed Heifer; 3rd, Wigton. Steers "Scot" and "Sweep," 1st, Dumfries. Heifers "Sable" and another; 2nd, Dumfries. Steer "Scot," 2nd, £10, Bingley Hall. Heifer "Sable"; 2nd, £5, Bingley Hall.

**STRATTON, R., The Duffryn, Newport, Mon.**

**CATTLE**—Shorthorn. Bull "Hornblower" (62724), June 2nd, 1891; 1st, £10, Bicester; Champion, £10 and 1st, £10, Bath and West. Bull "Gerald," June 4th, 1892; 1st, £7, Bicester. Heifer "Jubilant," May 6th, 1891; 3rd, £1, Bicester. Heifer "Timbrii XXIII." March 26th, 1891; 1st, £10 and Champion £10, Bath and West; 1st, £15 and Champion £20, Royal Chester. Bull "Excelsior," January 1st, 1898; 1st, £10, Tredegar. All bred by owner.

**TANNER, ALFRED, Shrawardine, Shrewsbury.**

**SHEEP**—Shropshire. Ram Lamb; 1st, £10. Ewe Lamb; 1st, £10, Shropshire and West Midland Show.

**TAYLOR, C. HOWARD, New Hall, Near Barnsley.**

**CATTLE**—Shorthorn. Heifer "Campanula," bred by the Hon. J. E. Lascelles, Zion Hill, Thirsk, May 16th, 1891; 2nd, Otley; 1st, £3, Newark; 1st, Cup, £5 5s., Doncaster; 1st, £5, Malton; 1st, £5, Pontefract; 3rd, £1, Barnsley. Bull "County Councillor II." (62341), bred by John Waind, Aukness, December 6th, 1890; 1st, £15,

Birmingham. Bull "Barron Ingram" (63651), bred by J. Vickers, May 29th, 1891; 2nd, £3 10s., Doncaster; 1st, £3, Pontefract. Heifer "Merry Morn," bred by F. J. S. Foljambe, Osberton Hall, May 4th, 1891; 2nd, £3 10s., Doncaster; 2nd, £1, Pontefract. Cow "Sweetheart XLVIII." (Vol. xxxvii., p. 413), bred by F. J. S. Foljambe, September 18th, 1886; 1st, £3, Pontefract. Cow "Knightly Princess II." (Vol. xxxviii., p. 457), bred by Col. Hoole, February 28th, 1887; 2nd, £1, Pontefract. Heifer "New Hall Sweetheart," bred by owner, March 18th, 1892; 1st, £1 10s., Pontefract.

**PIGS**—Tamworth. Boar "Royal Flush" (2957), January 19th, 1892; 1st, £3, Doncaster; 1st, £5, Great Yorkshire. Sow "Rhea Silva," December 16th, 1890; 1st, £3, Doncaster. Sow "Vesta" December 10th, 1891; 2nd, £1 10s., Doncaster.

**THOMPSON, ROBERT, Inglewood, Penrith.**

**CATTLE**—Shorthorn. Bull "British Cheer" (62222), bred by owner, calved April 26th, 1891; H. C., Royal Chester, and Highland; 2nd, £10, Yorkshire; 2nd, £3, Carlisle; 2nd, £2, Penrith; 2nd, £3, Kendal. Heifer "Margaretta Mullicent," (Vol. xxxvii.), October 3rd, 1890; 1st, £15, and R. No. for Champion, Royal Chester; 1st, £3, Penrith; 1st, £2 10s., and Medal, Kendal. Heifer "Sweet Shape," January 25th, 1892; 3rd, Royal Chester; 1st, £10, Newcastle, 1st, £10, Highland; 1st, £3, Penrith; 1st, £2, Carlisle; 1st, £2, Kendal. Cow "Inglewood Witch," January 23rd, 1897; 2nd, £20, Yorkshire; 3rd, £2, Penrith; two first prizes, Penrith, for best Shorthorns.

**TOMPSON, THOMAS, Holt Hall, Whitacre, Birmingham.**

**PIGS**—Tamworth. Sow "Chester Quality," (Vol. x.), December 30th, '91; 2nd, £5, Royal Chester; 2nd, £3, Leicester. Sow "Holt Queen," (Vol. x.), January 18th, 1892; R. No., and H. C., Leicester. Four Gilts, June, 1893; 3rd, Bingley Hall. Four Boars, June, 1893; R. No., Bingley Hall. **HORSES**—Shire. Filly, May 18th, 1893; 2nd, £5, Colehill.

**TOOP, W., Westergate House, Chichester.**

**SHEEP**—Southdown. Shearling Ram "Waterbeach II.," lambed April 2nd, 1892; H. C., Royal Chester; R. No. and H. C., Royal Counties; 1st, Tunbridge Wells. Other prizes for Sheep, R. No. and H. C., Royal Chester; 1st, £10, 3rd, £3, two H. C., one C. and R. No., and H. C., Royal Counties; two 1st, £12, one 2nd, £3, Tunbridge Wells. For Fat Sheep, 1st, £15, and R. for Breed Cup, and also H. C., Smithfield; 2nd, £5, Bingley Hall; 1st, £10, and Champion, also Thorley's Prize, and 1st, £6, Chichester; 1st, £5, Arundel; 1st, £5, Croydon.

**TORR, EDWARD R. BERRY, Westleigh House, Bideford.**

**SHEEP**—Devon Long Wool. Ram, bred by owner; 2nd, £2, Torrington. Shearling Ewes; 2nd, £2, Torrington. Ewes and Lambs; 3rd, £1, Torrington. Wethers; 1st, £2, Barnstaple; 1st, £2, Torrington. Wether Lambs; 1st, £2, Barnstaple; 3rd, £1, Torrington.

**HORSES**—Shire. Filly "Ella," 1st, £2, Torrington. Cart Mare and Foal; 1st, Torrington. Galloway Pony "Bidy," 2nd, Barnstaple; 2nd, Bideford.

**TOWNLEY, W. G. M., Hard Crag, Grange-over-Sands.**

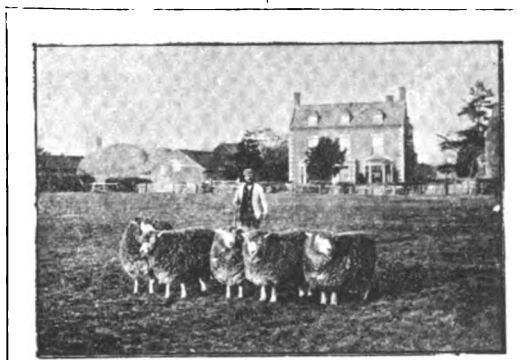
**CATTLE**—Jersey. Heifer "Butterfly Queen," bred by owner, July 10th, 1892; H. C., Royal Chester. Cow "May Queen II.," bred by J. Arthur, Jersey, May 6th, 1889; 1st, £1, Cartmel. Cow "Dora Mazzina," bred by P. Du Val, Jersey, December 13th, 1889; 2nd, £1, Cartmel. Cow "Mary Jane," bred by P. J. Payn, Jersey, April 3rd, 1890; 3rd, Cartmel.

**TOWNSHEND, HENRY, Caldesote Hall, Nuneaton.**

**SHEEP**—Shropshire. Rams, lambed March, 1892; 1st and 2nd, £6, Blackpool; 1st and Special, £8, Warwickshire. Three Ewes, lambed 1889, 1st, £10, Smithfield. Three Wethers, lambed 1892, 4th, £3, Smithfield; R. and H. C., Bingley Hall; 1st, Atherstone; 1st, Nuneaton. All bred by owner.

**TRIBLE, ABRAHAM, Halesdon Barton, Cookbury, North Devon.**

**CATTLE**—Devon. Bull "Cobham Triumph," calved September, 1892; two 1st and Champion, Holsworthy; and 2nd, Launceston. Bull "Duke of Halesdon" (2961), 1st, Launceston; 3rd, Holsworthy. Heifer "Tomatine" (13155), November, 20th, 1891; 1st and 2nd,



LINCOLN SHEEP,

The Property of Mr. Henry Goodyear, The Austerley, Bourne.



**Holsworthy;** 1st and Reserve for Champion, Launceston. Heifer "*Tryphosa*" (13157), June 27th, 1892; 1st, Holsworthy; two 1st, Launceston. Heifer "*Theodora*" (13154), May 29th, 1892; two 1st, Launceston. Cow "*Tribles Temptress*" (Vol. xvii.), 1st and 2nd, Holsworthy.

**TUDGE, WILLIAM, Leintshall, Ludlow.**

**CATTLE—Hereford.** Bull "*Ancient Briton*" (15034), bred by owner, calved May 6th, 1890; 1st and Champion for best Hereford Bull, and R. Champion of the Yard, World's Fair, Chicago. Bull "*Silverton*" (16939), bred by owner, calved February 16th, 1892; 2nd, Royal Chester; 2nd, Herefordshire; 2nd, Shropshire and West Midland.

**TURNER, A. P., The Lean, Farnbridge.**

**CATTLE—Hereford.** Heifers "*Lily II.*" January 22nd, 1892; "*Girandoline*" January 8th, 1892; "*Rhoda*," February 19th, 1892; and "*Cordelia*," March, 1892; shown as a quartette; 1st, £15, Kidderminster; and 1st, £5, Leominster. Bred by owner.

**WALTON BROS., Horncleft Stone Quarries, Rawtenstall.**

**SHEEP—Lank.** Ram, lambed March, 1892; 1st, £10, Royal Chester. Shearling Ewes (three); 2nd, £5 Royal Chester.

**WARD, JOHN E., Wallage Farm, Stanthorne, nr. Middlewick.**

**SHEEP—Leicester.** Bred by exhibitor; two 1st, £6; 2nd, £1, and 3rd, Cheshire; three 1st, £4 10s.; 2nd, £1, and 3rd, Middlewick.

**WARWICK, Countess of, Easton Lodge, Dunmow, Essex.**

**HORSES—Hackney.** Mare "*Queen of the Dale*" (4615), bred by T. Benton, Earith, St. Ives, Hunts., foaled 1887; 1892 Record—1st, London Horse Show; 1st, Ranelagh; 2nd, Royal; 1st, Essex; 3rd, Peterborough; 1st, Cambridgeshire; 1st, Tunbridge Wells; 1st, Eastbourne; 3rd, Great Yorkshire. 1893 Record—1st and Champion, Ranelagh; 1st and 2nd, Essex; 1st, Richmond (Surrey); V. H. C., Royal; 1st and 2nd, Cambridgeshire; two 1st, Tunbridge Wells; 1st, Bath and West; 3rd, Blackpool; V. H. C., Cardiff.

**WEBBER, THOMAS W., Kellyville, Athy, Ireland.**

**HORSES—Shire.** Stallion "*Cathorpe Celt*" (12900), bred by J. P. Cross, Cathorpe Towers, Rugby, foaled May 10th, 1890; 2nd, £20, Dublin.

**WEBSTER, WILLIAM, Ballyvadden, Kilmuckridge, Gorey, Ireland.**

**CATTLE—Shorthorn.** Bull "*Priry Seal*," bred by Lord Carlingford, calved April 3rd, 1891; 1st Wexford; 1st, Royal Dublin; Silver Medal, Gorey; also President's Gold Medal of the Stock Improvement Society. Heifer "*Queen Mary*," bred by owner, calved February 22nd, 1892; 1st, Wexford. "*Bessie Lee XIII.*," calved January 12th, 1892; 2nd, Wexford.

**SHEEP—Border Leicester.** Ram "*Ball's Bridge*," bred by owner, lambed March 5th, 1892; 1st, £10, Royal Dublin. Ram, lambed March 15th, 1892; H. C., Royal Dublin. Ram Lambs, two 1st; Ewe Lambs, 1st and 2nd; Ewe Hoggets, 1st; Three Rams, 1st, 2nd, and 3rd, Wexford.

**WELCH, BRYAN, Leighton Buzzard.**

**HORSES—Shire.** "*Bar None Conqueror*," "*Leighton Buzzard*," and "*Bar None Yet*," have taken eight 1st, two 2nd, and three Champion Prizes, value about £70, Royal Chester, Peterborough, Bedford, Leighton Buzzard, &c.

**WELDON, A. A., Kilmoreny, Athy, Co. Kildare.**

**CATTLE—Aberdeen Angus.** Bull "*Comte de Paris*" (9045), bred by Claude de Lacy, The Island, Waterford, January 15th, 1891; 2nd, £4, Dublin.

**SHEEP—Dorset Horned.** Ram, bred by owner, December, 1892; 1st, Silver Medal, Dublin. Three Ewes; 1st prize, Silver Medal, Dublin.

**WHELAN, MICHAEL, Dimagh House, Wexford.**

**CATTLE—Kerry.** Bull "*Paddy*," bred by owner, May, 1892; 2nd, £3, Royal Dublin. Hereford.—Bull "*Barlands*," bred by A. E. Hughes, Wintecott, Leominster, January, 1892; 1st, and Silver Medal, Wexford.

**WHITE, JOHN, The Grange, Appletton Roebuck, Bolton Percy, Yorks.**

**HORSES—Coaching.** Brood mare "*Astuty Queen*" (367), bred by Thos. Nicholson, Danby Howe, Grosmont, 1890; 2nd, £10, Royal Chester; 2nd, £2, Malton; 1st, £2, Marston; 1st, £3, Wetherley; 1st, £20, Great Yorkshire; 1st, £4, Bishop Auckland; 1st, £5, Stokesley; 1st, £3, Northallerton. Stallion "*Appletton Turk*" (1667), bred by Thos. Underwood, Grosmont, 1890; R. No., and H. C., Royal Chester; 1st, £20, Great Yorkshire. Filly "*Lady of the Vale*," bred by owner, 1892; 2nd, £1, Tadcaster; 1st, £2, Marston; 3rd, £5, Great Yorkshire.

**WILLIAMS, General OWEN, Temple, Great Marlow.**

**PIGS—Small White.** Two Sows, under 9 months, bred by owner; 1st, £10, and Breed Cup, £10, Smithfield. Two Pigs, under 12 months, 1st, £10, Smithfield. Sire of above "*Donald Graham*" (2653).

**WILLIAMS, Rev. S. H., Great Linford Rectory, Newport Pagnell.**

**CATTLE—Jersey.** Cow "*Tiny III.*" (E. J. H. B., Vol. v.), March 3rd, 1896; 2nd, £10, Butter Test, Royal Chester; 1st, £20, Milking, Tring; 3rd, £10, Butter Test, Tring.

**WILLIAMS, R. & S., Caer Gwllaw, Gwalchmai Valley, Anglesey.**

**HORSES—Shire.** Mare "*Cambrian Star*" (10772), bred by W. Salt, 1889; 1st and Champion, £8 5s., Carnarvon. Mare "*Rokby Duchess*" (13294), bred by Benjamin Shirley, 1889; H. C., Anglesey; Filly "*Cambrian Queen*" (16375), 1892; H. C., Anglesey.

**CATTLE—Black Welsh.** Bull "*Ambrose*" (233), bred by Capt. Best, 1890; Commended, Royal Chester; 1st, £4; 1st, £2; 2nd, £2, Anglesey and Carnarvon. Heifer "*Fan II.*," October 3rd, 1892; 2nd, Anglesey.

**SHEEP—Leicester.** Ram, bred by Maskell & Strickland, March, 1892; 2nd, £1, Anglesey. Ewes; three 1st; one 2nd, Anglesey.

**WILLIAMS, W. E., Gwercias, Corwen.**

**SHEEP—Welsh Mountain.** Ram "*Trm-y-Nant*," lambed April 15th, 1891; bred by Owen Price; Commended, Royal Chester. Three Ewes, April 1890; Commended, Royal Chester. Three Ewe Lambs, April, 1893; 1st, Bala.

**WILLS, J. DEANE, Bapton Manor, Codford, Wilts.**

**CATTLE—Shorthorn.** Bull "*Count Landerer*" (60545), calved March 3rd, 1889; 1st, £10, Norfolk; 3rd, £5, Royal; 1st and Champion, £12, Peterborough; 1st, £10, Leicester; 2nd, £10, Yorkshire; 1st, £10, Newport.

Bull "*Prince Stephen*" (64603), calved November 25th, 1891; 1st, £10, Somerset; 2nd, £5, Oxfordshire; 1st, £6, Wilts.; 2nd, £10, Bath and West; 2nd, £5, Royal Counties; 1st, £10, Essex; 2nd, £5, Norfolk; 1st, £10, Peterborough; 1st, £10, Leicester; 1st, £15, Yorkshire; 2nd, £5, Newport; Champion, £10, Chippenham. Bull "*Czarowitz*" (63850), calved January 13th, 1892; sire "*Count Landerer*," 1st, £3, Somerset; 1st, £15, Bath and West; 1st, £10, Norfolk; £20, Shorthorn Society's Prize at Royal Counties; 2nd, £10, Royal Chester.

Bull "*Goldsmith*," calved October 28rd, 1892; sire "*Count Landerer*," 2nd, £5, Royal Counties; 1st, £10, Essex; 1st, £5, Peterborough; 1st, £10, Leicester; 1st, £15, Yorkshire.

Heifer "*Sensation*," calved March 5th, 1892; sire "*Count Landerer*," 1st, £5, Somerset; 2nd, £10, Bath and West; 2nd, £5, Norfolk; 2nd, £5, Royal Chester; 2nd, Newport.

Heifer "*Miranda*," calved August 24th, 1892; sire "*Count Landerer*," 1st, £5, Oxford; 1st, £10, Royal Counties; 1st, £7, Essex; 1st, £10, Peterborough; 1st, £10, Leicester; 1st, £15, Yorkshire.

Heifer "*Jessamine*," calved April 13th, 1891; sire "*Captain of the Guard*," 1st, £10, Somerset; 1st and Champion, £12, Wilts.; 2nd, Bath and West; 1st, Norfolk; 3rd, £5, Royal Chester; 2nd, Peterborough.

Heifer "*Jill*," calved February 21st, 1892; sire "*Count Landerer*," 2nd, £5, Somerset; 1st, £2, Wilts.; 3rd, £5, Bath and West.

Heifer "*Ceres*," calved 23rd June, 1891; sire "*Challenge Cup*," 1st, £7, Oxford; 2nd, £5, Royal Counties; 2nd, £5, Essex.

Bull "*Vain Robin*," calved January 17th, 1893; sire "*Roan Robin*," 1st, £5, Shepton; 2nd, £5, Newport; 1st, £5, Chippenham.

Bull "*Adolphus*," calved June 25th, 1892; sire "*King Stephen*," 1st, £5, Chippenham.

Heifer "*Red Quadroon*," calved January 1st, 1893; sire "*Roan Robin*," 1st, £5, Shepton; 2nd, £5, Newport; 1st, £5, Chippenham.

Bull "*Mountain Lord*," calved June 25th, 1891; sire "*Galtie Knight*," 2nd, £30, Champion Class, Birmingham.

All bred by owner, except "*Count Landerer*." The total winnings amounting to 80 prizes, value £608.

**WORTLEY, JOHN, Frettenham, Norwich.**

**CATTLE—Hereford.** Steer, bred by R. T. Griffiths, Eyton, Leominster, Sire "*Post Orbit*" (11410), aged 2 years 7 months; 1st, £4, North Walsham; 2nd, £4, Norfolk; 1st, £10, and R. for Champion, Norwich; 1st, £15, Special £50, and R. No. for best Ox, Bingley Hall; 1st, £25, Special £25, and R. No. for best Ox, Smithfield; 1st, £8, Champion £15, and Medal, £5, Ipswich. Total £161. Devon.—Steer, bred by T. H. Risdon, Washford, Taunton, Sire "*Bonny Lad*" (1906), aged 3 years 11 months; 1st, £4, North Walsham; 2nd, £4, Norwich; 1st, £25, Smithfield. Also in 1892—1st Prize and Cup, and R. No. as best Ox, Smithfield; 1st, Bingley Hall; Cup for best Devon bred in Norfolk, and R. for Champion, Norwich. Total value of Prizes £140.

**WRIGHTSON, JOHN, College of Agriculture, Downton, Wilts.**

**SHEEP—Hampshire Down.** Bred by owner; three 1st, £18, and 2nd, £3, Somersetshire; two 2nd and 3rd, Wiltshire; 3rd, Royal Chester; 1st, Salisbury Fair.

**YOUNG, WILLIAM, Brockley Park, Stradbally, Queen's Co.**

**SHEEP—Hampshire Down.** Bred by owner. Shearling Rams; 1st, 2nd and H. C., £13, Royal Dublin. Ram Lambs; 2nd, £3, Royal Dublin. Shearling Ewes; 2nd, £3, Royal Dublin. Ewe Lambs; 1st, £5, Royal Dublin; total £24.



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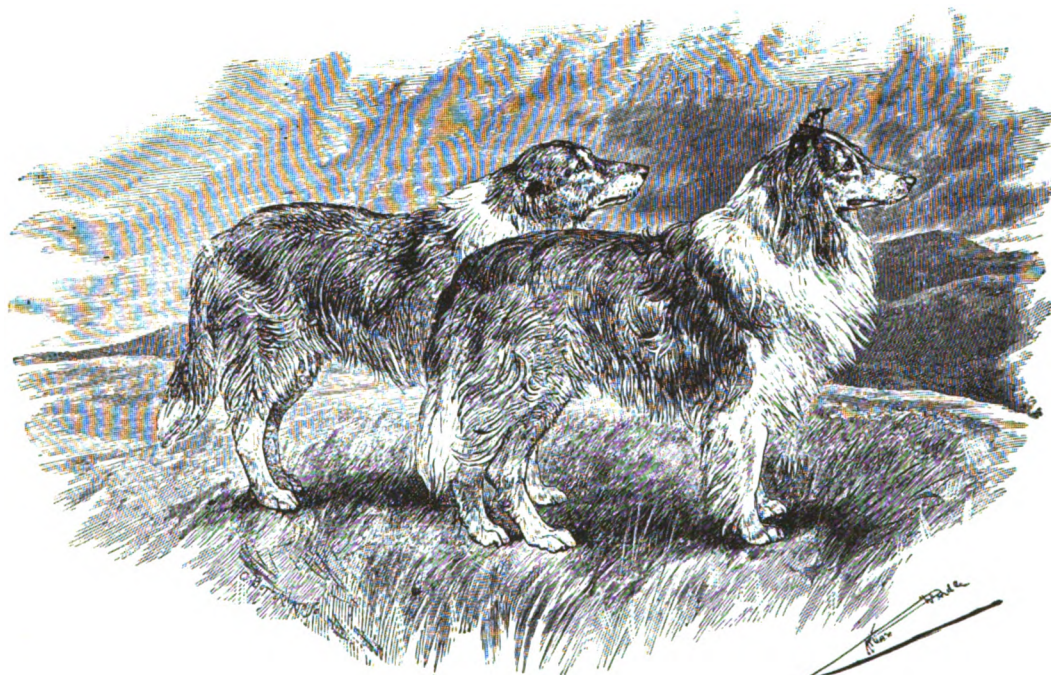
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 WILLING, JAMES, 125, Strand, W.C.

### Estate and House.

BANTING & SONS, 26-27, St. James' Street, S.W.  
 CHANCELLOR, ALBERT, 1, King Street, Richmond,  
 Surrey, and at Ascot and Sunningdale.  
 CHESTERTON & SONS, 22, Lower Phillamion Place,  
 Kensington, W.  
 COPPING, WM., & HIGGS, 50, Green Street, W.  
 CURTIS & HENSON, 5, Mount Street, Berkeley Sq., W.  
 DOWSETT & Co., 3, Lincoln's Inn Fields, W.C.  
 DRUCE & Co., 58, 68 & 69, Baker Street, W.  
 ELLIOTT, SON & BOYTON, 6, Vere Street, W.  
 ELSWORTH & KNIGHTON, 15, Exhibition Road, S.W.  
 FLOOD, JAS., & SONS, 8, Westbourne Grove, W.  
 FOX & BOUSFIELD, 99, Gresham Street, E.C.  
 GIDDY & GIDDY, 121, Pall Mall, S.W., and at  
 Sunningdale and Maidenhead.  
 GILLOW & Co., 406-8, Oxford Street, W.  
 HAMPTON & SONS, 1, Cockspur Street, S.W.  
 HOLLAND & SONS, Mount Street, Berkeley Square, W.  
 LOFTS & WARNER, 180, Mount Street, Berkeley Sq., W.  
 MORANT & Co., 91, New Bond Street, W.  
 OETZMANN & Co., 98, Regent Street, W.  
 OSBORN & MERCER, 28B, Albemarle Street, W.  
 POWELL, H. & R., 17, Bayswater Terrace, W.  
 ROBINS, SNELL & GORE, 22, Conduit Street, W.  
 SHEPPARD, ERNEST, & Co., 111, Eaton Terrace, S.W.  
 SMITH, D., SON & OAKLEY, 10, Waterloo Place, S.W.  
 TROLLOPE, G., & SONS, 7, Hobart Place, S.W.,  
 15, Parliament Street, S.W., and West Halkin  
 Street, S.W.  
 TURNER, ALEX. H., & Co., 199, Piccadilly, W.  
 WALTON & LEE, Mount Street, Grosvenor Square, W.  
 WHELPDALE, W., & SON, 404-6, Edgware Road, W.  
 WHITE, PERRY & TAYLOR, 1, Halkin Street, and  
 50, Sloane Street, S.W.

### AGENTS, Estate and House—Continued.

WILKINSON & SON, 8, Old Bond Street, W.  
 WYAND, SAML. J., & SONS, 15, Lower Grosvenor  
 Place, S.W., and 35, Marloes Road, Kensington, W.

### Live-Stock.

PREECE, E. GOODWIN, Shrewsbury.  
 THORNTON, JOHN, & Co., 7, Prince's Street, Hanover  
 Square, W.

### Sporting.

LANCASTER, CHARLES, 151, New Bond Street, W.

### AGRICULTURE.

AGRICULTURAL UNION, 80, Fleet Street, E.C.  
 BOARD OF AGRICULTURE, 4, Whitehall Place, and  
 3, St. James' Square, S.W.  
 ROYAL AGRICULTURAL SOCIETY OF ENGLAND, 12,  
 Hanover Square, W.  
 ROYAL COMMISSION ON AGRICULTURE, 15, St. George's  
 Street, Westminster, S.W.

### Chemists, Agricultural.

DYER, BERNARD, B.Sc., F.C.S., 17, Gt. Tower Street,  
 E.C.  
 SIBSON, ALFRED, F.C.S., 23, St. Mary Axe, E.C.  
 VOELCKER, AUG., & SONS, 11, Salisbury Square, E.C.

### Colleges, Agricultural.

ASPATRIA AGRICULTURAL COLLEGE, Cumberland.  
 COLLEGE OF AGRICULTURE, Downton, Salisbury.  
 COLONIAL COLLEGE AND TRAINING FARMS, LIMITED,  
 Hollesley Bay, Suffolk.  
 ROYAL AGRICULTURAL COLLEGE & FARM, Cirencester.  
 TAMWORTH AGRICULTURAL COLLEGE, Cleobury  
 Mortimer, Salop.  
 UNIVERSITY COLLEGE, Bangor, North Wales.

### Supply Association, Agricultural.

AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD.,  
 3, Agar Street, Strand, W.C., and Deptford, S.E.  
 (see page 273).

### ASSURANCE.

#### Burglary.

BURGULARY INSURANCE SECURITY Co., LIMITED,  
 63, St. James' Street, S.W.

#### Fine Art.

FINE ART, LTD., THE, 28, Cornhill, E.C.

#### Gun.

LANCASTER, CHARLES, 151, New Bond Street, W.

**ASSURANCE—Continued.****Life and Fire.***West End Offices.*

ALLIANCE, 1 & 2, St. James' Street, S.W.  
 ATLAS FIRE & LIFE, 4, Pall Mall East, S.W.  
 CALEDONIAN FIRE & LIFE, 14, Waterloo Place, S.W.  
 CLERICAL, MEDICAL, & GENERAL LIFE, 15, St. James' Square, S.W.  
 COUNTY FIRE, 50, Regent Street, W.  
 ECONOMIC FIRE OFFICE, LIMITED, 14, Cockspur Street, S.W.  
 ENGLISH & SCOTTISH LAW LIFE, 12, Waterloo Place, S.W.  
 GENERAL LIFE & FIRE, 13, Piccadilly, W.  
 GRESHAM LIFE, 2, Waterloo Place, S.W.  
 IMPERIAL, 22, Pall Mall, S.W.  
 LAW UNION & CROWN INSURANCE Co., 126, Chancery Lane, W.C.  
 LIFE ASSOCIATION OF SCOTLAND, 123, Pall Mall, S.W.  
 LIVERPOOL & LONDON & GLOBE, 56, Charing Cross, S.W.  
 LONDON & LANCASHIRE FIRE, 26, Pall Mall, S.W.  
 MANCHESTER FIRE, Clock House, Arundel Street, Strand, W.C.  
 MUTUAL LIFE OF NEW YORK, 60, St. James' St., S.W.  
 NATIONAL LIFE, 10, Pall Mall, S.W.  
 NORTH BRITISH MERCANTILE FIRE & LIFE, 8, Waterloo Place, S.W.  
 PHOENIX FIRE, 57, Charing Cross, S.W.  
 RELIANCE MUTUAL LIFE, 1, Waterloo Place, S.W.  
 ROYAL, 48, St. James' Street, S.W.  
 ROYAL EXCHANGE ASSURANCE, 29, Pall Mall, S.W.  
 SCOTTISH IMPERIAL, 16, Cockspur Street, S.W.  
 SCOTTISH WIDOWS' FUND LIFE, 47, Pall Mall, S.W.  
 STANDARD LIFE, 3, Pall Mall East, S.W.  
 SUN FIRE & LIFE, 60, Charing Cross, S.W.  
 UNION FIRE & LIFE, 55, Charing Cross, S.W.  
 WESTMINSTER FIRE, 27, King Street, Covent Garden, W.C.

**Live-Stock.**

HORSE, CARRIAGE, AND GENERAL INSURANCE Co., LTD., 17, Queen Victoria Street, E.C.  
 IMPERIAL LIVE STOCK INSURANCE Co., LTD., Pall Mall, S.W.

**Steam Boiler.**

BOILER INSURANCE & STEAM POWER Co., LIMITED, 139, Cannon Street, E.C.; 67, King Street, Manchester; and 2, West Regent Street, Glasgow.

**AUCTIONEERS (also see Agents, Estate and House).**

CHANCELLOR, ALBERT, 1, King Street, Richmond, Surrey, and at Ascot and Sunningdale.

**Live-Stock.**

MANSSELL, A., & Co., Shrewsbury.  
 PREECE, E. GOODWIN, Shrewsbury.  
 SEXTON, G. M., & Sons, 85, High Holborn, W.C.  
 SEXTON & GRIMWADE, Ipswich.

**AUCTIONEERS, Live-Stock—Continued.**

THORNTON, JOHN, & Co., 7, Prince's Street, Hanover Square, W.

**BOOKS—(see pages 55-64).****BUILDING AND DECORATING.****Alarms, Burglar and Fire.**

GRAY, J. W., & SON, 113, Leadenhall Street, E.C.  
*(see page 139).*

**Asphalte.**

McTEAR & Co., LTD., Belfast *(see page 269).*

**Asphalte Floors and Roofs.**

WESTMINSTER PATENT FLOORING Co., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria street, E.C. *(see page 107).*

**Balconies.**

ST. PANCRAS IRON WORKS Co., St. Pancras Road, N.W.  
*(see page 171).*

**Baths and Lavatories.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. *(see page 141).*

CRISPIN, JAMES, & SONS, Nelson Street, Bristol *(see page 291).*

GRAY, JAMES, Danvers Street, Chelsea, S.W. *(see page 299).*

JENNINGS, GEORGE, Lambeth Palace Road, S.E.  
 SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Bells, Electric.**

BAUGHAN, W. H., & Co., Charlbury, Oxfordshire.  
 GRAY, J. W., & SON, 113, Leadenhall Street, E.C.  
*(see page 139).*

**Boilers for Hot Water Heating (also see Heating and Ventilating).**

BLEZARD, JAMES, & SONS, Guy Foundry, Padiham, Lancashire.

**Brick and Tile Making Machinery.**

WHITEHEAD, JOHN, & Co., Preston, Lancashire *(see page 264).*

**Bricks and Tiles.**

ACCRINGTON BRICK AND TILE Co., LTD., Accrington.  
 ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. *(see page 141).*

BLANCHARD, W. H., & Co., Bishop's Waltham, Hants.  
 INGRAM & CLARKE, 50, Caryl Street, Queen's Dock, Liverpool.

LEGGE, G., & SON, Madeley, Salop. *(see page 128).*

SESSIONS, J., & SONS, Gloucester (and Cardiff).

SOUTH STAFFORDSHIRE BLUE BRICK Co., LTD., Cakemore, Blackheath, Dudley *(see page 176).*

STANLEY BROS., Nuneaton *(see page 126).*

**Builders.**

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.  
 GRAY, JAMES, Danvers Street, Chelsea, S.W. *(see page 299).*

**BUILDING AND DECORATING, Builders—**  
*Continued.*

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).  
HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Cellar Fittings.**

BURROW, W. & J., 62-3, Great Tower Street, E.C. (*see page 109*).  
FARROW & JACKSON, 16, Great Tower Street, E.C., and 8, Haymarket, W. (*see page 108*).  
KING & SMITH, Weedon (*see pages 110-1*).

**Cement.**

ASHTON, & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
FRANCIS & CO., Vauxhall, S.W.  
INGRAM & CLARKE, 50, Caryl Street, Queen's Dock, Liverpool.  
SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Chimney Cows and Pots.**

ACCRINGTON BRICK AND TILE CO., LTD., Accrington.  
ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
GILBERT, JOHN A., & CO., 24, Mount Pleasant, Elm Street, Gray's Inn Road, W.C.  
HOYLAND, E. DOUGLAS, 2, Walbrook, E.C. (*see page 117*).  
MILBURN, JOHN, Marlborough (*see page 122*).  
STANLEY BROS., Nuneaton (*see page 126*).

**Chimney Pieces.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
BIRD & TUCKER, 145-7, Euston Road, N.W.  
EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).  
SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Cisterns, Corrugated Iron.**

REDCLIFFE IRON WORKS CO. (J. TINN, LTD.), Bristol.

**Cisterns, Slate.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

**Cisterns and Tanks, Iron.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
ATTWOOD, J., Stourbridge (*see page 303*).  
BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).  
BELLAMY, JOHN, Byng Street, Millwall, E. (*see page 123*).  
BURNBY & CO., Millwall, E. (*see page 123*).  
DAVIES BROS. & CO., LTD., Wolverhampton.  
GRAY, JAMES, Danvers Street, Chelsea, S.W. (*see page 299*).  
HEBBERTSON, D., & CO., Beaconsfield Works, Wolverhampton.

**BUILDING AND DECORATING, Cisterns and Tanks, Iron—Continued.**

MAIN, A. & J., & CO., 77A, Queen Victoria Street, E.C. (*see pages 262-3*).  
MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).  
SESSIONS, J., & SONS, Gloucester (and Cardiff).  
TREGGON & CO., LTD., Brewery Road, N.

**Closets, Peat Dust.**

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).

**Concrete (*see Cement*).****Cooking Apparatus (*also see Ranges, &c.*).**

CRISPIN, JAMES, & SONS, Nelson Street, Bristol (*see page 291*).

**Copper Roofing.**

TREGGON & CO., LTD., York Works, Brewery Road, London, N.

**Corrugated Iron Sheets (*see Roofs, Galvanized Iron*).****Cranes, Jib.**

ABBOTT & CO., Newark-on-Trent (*see page 218*).

**Cresote.**

WESTMINSTER PATENT FLOORING CO., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Decorators.**

COTTERELL BROS., Bristol (*see page 106*).  
GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see pages 114-5*).  
HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).  
HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).  
LAND, J. & H., 93, Cannon Street, E.C.

**Disinfectants.**

JEYES', 43, Cannon Street, E.C. (*see page 144*).

**Distemper for Walls.**

TAYLOR, W. R., & CO., Liverpool (*see page v.*).

**Drain Cleaning Machines.**

ASHFORD, W. & G., Essex Street and Kent Street, Birmingham (*see page 117*).  
CLAY, C., & CO., Wakefield (*see page 189*).

**Drain Pipe Making Machinery.**

WHITEHEAD, JOHN, & CO., Preston (*see page 264*).

**Drain Pipes.**

ACCRINGTON BRICK AND TILE CO., LTD., Accrington.  
ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
BLANCHARD, M. H., & CO., Bishop's Waltham, Hants.  
MACFARLANE, W., & CO., Glasgow (*see page 177*).  
STANLEY BROS., Nuneaton (*see page 126*).

**Duresco.**

LINE, JOHN, & SONS, Reading (*see page 139*).



**BUILDING AND DECORATING—Continued.****Earth Closets.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).

**Ecclesiastical Decorators.**

SAVELL, A., & Co., 20, Albany Street (Portland Road Station), N.W.

**Electric Balls (*see Balls*).****Electric Lighting.**

DRAKE & GORHAM, 66, Victoria Street, S.W.

EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).

FOWLER, JOHN, & Co., LTD., Leeds.

GENT & Co., Faraday Works, Leicester.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (*see pages 114-5*).

GRAY, J. W., & SON, 113, Leadenhall Street, E.C. (*see page 139*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HINDLEY, E. S., 11, Queen Victoria Street, E.C. (*see page 216*).

SHARPE & KENT, 34, Victoria Street, S.W.

**Electric Light Fittings.**

OSLER, F., & Co., 100, Oxford Street, W.

PERRY & Co., 17, Grafton Street, Bond Street, W. (*see page 102*).

**Electric Light Wires.**

DENNIS, W. F., & Co., 11, Billiter Street, E.C. (*see page 138*).

**Felt.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

BOOBYER, J. H., & SONS, 13-14, Stanhope Street, W.C. CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).

MCTEAR & Co., LTD., Belfast (*see page 269*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 162*).

RANDS & JECKELL, Ipswich (*see page 238*).

**Fire-Proof Doors.**

LIFT AND HOIST CO., 79, Queen Street, Cheapside, E.C. (*see page 124*).

**Fire-Proof Steel Lathing.**

BRITISH METAL EXPANSION CO., LTD., Patentees and Sole Manufacturers in Great Britain; Stanton Works, West Hartlepool, and 3, Lambeth Hill, Queen Victoria Street, E.C.

**BUILDING AND DECORATING—Continued.****Gas Brackets, Fittings, &c.**

PERRY & Co., 17, Grafton Street, Bond Street, W. (*see page 102*).

**Gas-Making Machines.**

HEARSON, CHARLES, & Co., LTD., 235, Regent St., W. MULLEN, H. L., Alpha Works, Mary Ann Street, Birmingham (*see page 120*).

**Gas and Water Pipes.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.

**Glazing.**

PARAGON PATENT GLAZING AND ROOFING CO., Rabone Lane, Smethwick (*see page 301*).

**Granite Work.**

BIRD & TUCKER, 145-7, Euston Road, N.W.

**Grates and Stoves.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).

LONDON WARMING AND VENTILATING CO., LTD., 105, Regent Street, W.

PETTER, JAMES B., Yeovil (*see page 117*).

SESSIONS, J., & SONS, Gloucester (and Cardiff).

SHAW, W., & Co., Park Street, Birmingham (*see page 125*).

**Heating and Ventilating Engineers.**

ACME VENTILATING AND HEATING CO., 35, Tarleton Street, Liverpool, and 13, King Street, Cheapside, E.C.

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

ATTWOOD, J., Foster Street, Stourbridge (*see page 303*).

BLEZARD, JAMES, & SONS, Guy Foundry, Padiham, Lancashire.

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.

CRISPIN, JAMES, & SONS, Nelson Street, Bristol (*see page 291*).

GRAY, JAMES, Danvers Street, Chelsea, S.W. (*see page 299*).

GRUNDY, JOHN, 30, Duncan Terrace, City Road, E.C. (*see page 124*).

HARTLEY & SUGDEN, LTD., Halifax.

HOYLAND, E. DOUGLAS, 2, Walbrook, E.C. (*see page 117*).

JONES & ATTWOOD, Stourbridge (*see page 292*).

MACFARLANE, WALTER, & Co., Glasgow (*see page 177*).

MACKENZIE & MONCUR, Edinburgh, Glasgow and London.

MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).

PORTWAY, CHAS., & SON, Halstead, Essex.

RED ROSE BOILER CO., LTD., Chester-le-Street (*see page 299*).

RENTON, GIBBS & Co., LTD., Liverpool (*see page 117*).

**BUILDING AND DECORATING, Heating and Ventilating Engineers—Continued.**

RICHARDSON, W., & Co., Darlington.  
 SANITARY ENGINEERING AND VENTILATION Co., 65, Victoria Street, Westminster, S.W.  
 SAUNDERS, SAM'L., 93-5, Upper Moss Lane, Hulme, Manchester.  
 SENDALL, JAMES & Co., LTD., Cambridge (*see page 290*).  
 SKINNER & BOARD, Stokes Croft, Bristol.  
 TREGGON & Co., LTD., Brewery Road, N.

**Hoists.**

ABBOTT & Co., Newark-on-Trent (*see page 218*).

**Iron Doors.**

LIFT AND HOIST Co., 79, Queen Street, Cheapside, E.C. (*see page 124*).

**Joinery.**

HOLLIS BROS. & Co., Leicester (*see page 138*).  
 WESTMINSTER PATENT FLOORING Co., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Kitchen Ranges (*see Ranges, &c.*).****Ladders.**

GRIFFIN, WILLIAM, Luda Works, Louth (*see page 302*).  
 MORRIS, JOHN, & SONS, Cross Lane, Manchester (*see page 137*).

**Lavatories and Baths (*see Baths, &c.*).****Lifts.**

LIFT AND HOIST Co., 79, Queen Victoria Street, E.C. (*see page 124*).

**Lightning Conductors.**

GRAY, J. W., & SON, 113, Leadenhall Street, E.C. (*see page 139*).  
 WHINCOP, HENRY C., Smethwick (*see page 128*).

**Lime.**

INGRAM & CLARKE, 50, Caryl Street, Queen's Dock, Liverpool.

**Locks.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
 BOOBBYER, J. H., & SONS, 13-14, Stanhope Street, W.C.  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).  
 KAYE, JOSEPH, & SONS, LTD., 77A, Great Queen Street, W.C. (*see page 128*).  
 SHAW & Co., Park Street, Birmingham (*see page 125*).

**Magnetic Iron Paint.**

TAYLOR, W. R., & Co., Liverpool (*see page v.*).

**Marble Goods.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).  
 EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).

**BUILDING AND DECORATING, Marble Goods—Continued.**

INGRAM & CLARKE, 50, Caryl Street, Queen's Dock, Liverpool.  
 SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Mosaic.**

WESTMINSTER PATENT FLOORING Co., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Nails.**

BOOBBYER, J. H., & SONS, 13-14, Stanhope Street, W.C.  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).  
 SHAW, W., & Co., Park Street, Birmingham (*see page 125*).

**Padlocks.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).  
 KAYE, JOSEPH, & SONS, LTD., 77A, Great Queen Street, W.C. (*see page 128*).

**Paints, Oils, Brushes, &c.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
 BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.  
 CARSON, WALTER, & SONS, Grove Works, Battersea, S.W.  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).  
 COTTERELL BROS., Clare Street, Marsh Street, and Baldwin Street, Bristol (*see page 106*).  
 GAY, R., & Co., York Street, City Road, E.C.  
 KING, T. C. R., Prince of Wales Road, Norwich.  
 TAYLOR, W. R., & Co., Liverpool (*see page v.*).

**Paper-hangings.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C.  
 COTTERELL BROS., Bristol (*see page 106*).  
 GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (*see page 114*).  
 HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).  
 LAND, J. & H., 93, Cannon Street, E.C.  
 LINE, JOHN, & SONS, Reading (*see page 139*).  
 SHAW & Co., 164, Holloway Road, N. (*see page 128*).

**Parquet Floors.**

WESTMINSTER PATENT FLOORING Co., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Pipe Bursting Preventers.**

TREGGON & Co., LTD., Brewery Road, London, N.

**Planing and Moulding Mills.**

MCTEAR & Co., Belfast (*see page 269*).

**Portable Buildings.**

BOULTON & PAUL, Norwich (*see page 170*).

**BUILDING AND DECORATING—Continued.****Pulley Blocks.**

CROWLEY, JOHN, & Co., LTD., Sheffield.

**Rain-water Pipes and Gutters.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.  
CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).

GRAY, JAMES, Danvers Street, Chelsea, S.W. (*see page 299*).

SHAW, W. & Co., Park Street, Birmingham (*see page 125*).

**Rain-water Separators.**

ROBERTS, C. G., Haslemere, Surrey (*see page 127*).

**Ranges, Kitcheners, &c.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

BIRD & TUCKER, 145-7, Euston Road, N.W.

EAGLE RANGE & FOUNDRY Co., 176, Regent Street, W.

EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).

SESSIONS, J., & SONS, Gloucester (and Cardiff).

SHAW, W., & Co., Park Street, Birmingham (*see page 125*).

**Revolving Shutters.**

LIFT AND HOIST Co., 79, Queen Street, Cheapside, E.C. (*see page 124*).

**Roof Glazing.**

PARAGON PATENT GLAZING AND ROOFING Co., Rabone Lane, Smethwick (*see page 301*).

**Roofing, Boarded.**

HOLLIS BROS. & Co., Leicester (*see page 138*).

**Roofing Tiles, Slates, &c.**

ACCRINGTON BRICK AND TILE Co., LTD., Accrington.

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

LEGGE, GEORGE, & SON, Madeley, Salop. (*see page 128*).

SESSIONS, J., & SONS, Gloucester (and Cardiff).

STANLEY BROS., Nuneaton (*see page 126*).

**Roofs, Felt.**

McTEAR & Co., LTD., Belfast (*see page 269*).

**Roofs, Galvanized Iron.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).

BOBBYER, J. H., & SONS, 13-14, Stanhope Street, W.C.

BOULTON & PAUL, Norwich (*see page 170*).

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.

HERBERTSON, D., & Co., Wolverhampton.

MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C. (*see pages 262-3*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

**BUILDING AND DECORATING, Roofs, Galvanized Iron—Continued.**

REDCLIFFE IRON WORKS Co. (J. TINN, LTD.), Bristol.  
SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Roofs, Iron.**

ST. PANCRAS IRON WORKS Co., St. Pancras Road, N.W. (*see page 171*).

**Sanitary Earthenware.**

WOODWARD, J., & ROWLEY, Swadlincote, near Burton-on-Trent.

**Sanitary Engineers.**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (*see pages 114-5*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

JENNINGS, GEORGE, Lambeth Palace Road, S.E.

MEADOW FOUNDRY Co., Mansfield (*see page 300*).

SANITARY ENGINEERING AND VENTILATION COMPANY, 65, Victoria Street, S.W.

**Sanitary Powder.**

JEYES' SANITARY COMPOUNDS Co., LTD., 43, Cannon Street, E.C. (*see page 144*).

**Saw Benches.**

HINDLEY, E. S., 11, Queen Victoria Street, E.C. (*see page 216*).

MARSHALL, SONS & Co., LTD., Gainsborough (*see page 205*).

TASKER, W., & SONS, Andover (*see page 213*).

**Saw Millers.**

McTEAR & Co., LTD., Belfast (*see page 269*).

**Saws, Circular.**

SPEAR & JACKSON, Etna Works, Sheffield (*see page 247*).

**Slaters' Felt.**

McTEAR & Co., LTD., Belfast (*see page 269*).

**Slates, Roofing (also see Roofing Tiles, &c.).**

ASHTON & GREEN IRON Co., Bury Street, St. Mary Axe, E.C. (*see page 141*).

SESSIONS, J., & SONS, Gloucester (and Cardiff).

**Speaking Tubes.**

GRAY, J. W., & SON, 113, Leadenhall Street, E.C. (*see page 139*).

**Stained Glass Windows.**

JONES & WILLIS, 43, Great Russell Street, W.C., and Birmingham.

SAVELL, A., & Co., 20, Albany Street (Portland Road Station), N.W.

**Staircases, Iron.**

ST. PANCRAS IRON WORKS Co., St. Pancras Road, N.W. (*see page 171*).

**Steeple Jack.**

WHINCOP, HENRY, Smethwick, near Birmingham (*see page 128*).

**BUILDING AND DECORATING—Continued.****Stone Preservative.**

LINE, JOHN, & SONS, Reading (*see page 139*).

**Stonework, Ornamental.**

BOWSTONE CO., THE, Maidstone (*see page 127*).

**Tanks and Cisterns (*see Cisterns and Tanks*).****Tar, Stockholm.**

WESTMINSTER PATENT FLOORING CO., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Telephones.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C.

GENT & CO., Faraday Works, Leicester.

GRAY, J. W., & SON, 113, Leadenhall Street, E.C. (*see page 139*).

**Terra-Cotta Goods.**

ACCRINGTON BRICK & TILE CO., LTD., Accrington.

**Tiles (*see Bricks and Tiles*).****Timber.**

BRAGGINS, G. F., & CO., Banbury (*see page 270*).

HOLLIS BROS. & CO., Leicester (*see page 138*).

McTEAR & CO., LTD., Belfast (*see page 269*).

NUTMAN & SON, 23, Bucklersbury, E.C.

WESTMINSTER PATENT FLOORING CO., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Tombs and Monuments.**

BIRD & TUCKER, 145-7, Euston Road, N.W.

**"Tortoise" Stoves.**

PORTWAY, CHAS., & SON, Halstead, Essex.

**Trellis, Wood.**

WESTMINSTER PATENT FLOORING CO., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Tubes, Gas and Water (*see Gas and Water Pipes*).****Yanes.**

GRAY, J. W., & SON, 113, Leadenhall Street, E.C. (*see page 139*).

**Yarnishes.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).

CARSON, WALTER, & SONS, Grove Works, Battersea, S.W.

CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).

SHAW & CO., 164, Holloway Road, N. (*see page 128*).

TAYLOR, W. R., & CO., Liverpool (*see page v.*).

**Verandahs, Iron.**

ST. PANCRAS IRON WORKS CO., St. Pancras Road, N.W. (*see page 171*).

**BUILDING AND DECORATING—Continued.****Wall-papers (*see Paper-hangings*).****Walls, Solution for Damp.**

LINE, JOHN, & SONS, Reading (*see page 139*).

TAYLOR, W. R., & CO., Liverpool (*see page v.*).

**Water Pipes (*see Gas and Water Pipes*).****Wood Block Floors.**

WESTMINSTER PATENT FLOORING CO., 537F, King's Road, Chelsea, S.W., and 73, Queen Victoria Street, E.C. (*see page 107*).

**Wooden Houses, &c.**

ARMSTRONG, ADDISON & CO., Sunderland (*see page 247*).

BOULTON & PAUL, Norwich (*see page 170*).

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.  
LANCASTER, CHARLES, 151, New Bond Street, W.

**Wood Stains.**

TAYLOR, W. R., & CO., Liverpool (*see page v.*).

**Wrought Iron Gates and Railings (*also see Fencing*).**

JONES & WILLIS, 43, Great Russell Street, W.C., and Birmingham.

**Zinc Roofing.**

TREGGON & CO., Brewery Road, London, N.

**Zinc White Paint.**

TAYLOR, W. R., & CO., Liverpool (*see page v.*).

**CARTS AND WAGGONS.****Carts, Cattle.**

BRISTOL WAGON WORKS CO., Bristol (*see page 174*).

CROSSKILL, W., & SONS, Beverley (*see page 221*).

**Carts, Farm.**

BRISTOL WAGON WORKS CO., Bristol (*see page 174*).

CROSSKILL, W., & SONS, Beverley (*see page 221*).

HOLYOAK, T., & SONS, Narborough (*see page 225*).

HULL CART AND WAGGON CO., Hull.

TASKER, W., & SONS, Andover (*see page 214*).

VIPAN & HEADLY, Leicester (*see page 245*).

WOODS & CO., Stowmarket.

**Carts, Liquid Manure and Water.**

BAKER, T., & SONS, Compton, Berkshire (*see page 219*).

COLEMAN & MORTON, Chelmsford (*see page 220*).

CROSSKILL, W., & SONS, Beverley (*see page 221*).

OSMOND, Ramsbury, Wilts. (*see page 300*).

RANDELL, F., North Walsham (*see page 246*).

REEVES, R. & J., & SON, Westbury (*see page 226*).

TASKER, W., & SONS, Andover (*see page 215*).

VIPAN & HEADLY, Leicester (*see page 245*).

WENSLEY, J., Mark, near Highbridge (*see page 241*).

**Carts, Market.**

CROSSKILL, W., & SONS, Beverley (*see page 221*).

**Carts, Milk.**

BRISTOL WAGON WORKS CO., Bristol (*see page 174*).

RANDELL, F., North Walsham (*see page 246*).

VIPAN & HEADLY, Leicester (*see page 245*).

**CARTS AND WAGGONS—Continued.****Lorries, Waggon, &c.**

BRISTOL WAGON WORKS CO., Bristol (*see page 174*).  
 CROSSKILL, W., & SONS, Beverley (*see page 221*).  
 TASKER, W., & SONS, Andover (*see page 214*).  
 WENSLEY, J., Mark, near Highbridge (*see page 241*).  
 WOODS & CO., Stowmarket.

**Tanks for Water Carts.**

BELLAMY, JOHN, Millwall, E. (*see page 123*).  
 BURNBY & CO., Millwall, E. (*see page 123*).

**Timber Carriages.**

BRISTOL WAGON WORKS CO. (*see page 174*).  
 CROSSKILL, W., & SONS, Beverley (*see page 221*).  
 TASKER, W., & SONS, Andover (*see page 214*).

**Waterproof Covers for Carts and Waggon.**

EDGINGTON, J., & CO., 19, Long Lane, E.C. (*see page 257*).  
 MURTON, H. A., Newcastle-on-Tyne (*see page 162*).  
 PHILLIPS, CHAS. D., Newport, Mon. (*see page 283*).  
 RANDS & JECKELL, Ipswich (*see page 239*).  
 SINGLETON, W., Lincoln (*see page 257*).

**DAIRY APPLIANCES.****Butter Colouring.**

FULLWOOD, R. J., & BLAND, 31, Belvedere Street,  
 Hoxton, N.  
 OLDFIELD, PATTINSON & CO., Manchester.

**Butter Powder.**

OLDFIELD, PATTINSON & CO., Manchester.

**Butter Workers, Tables, &c.**

BRADFORD, T., & CO., Manchester.  
 DAIRY SUPPLY CO., Museum Street, Bloomsbury, W.C.  
 LISTER, R. A., & CO., Dursley.  
 LLEWELLIN, G., & SON, Haverfordwest (*see page 256*).  
 MANN, S., GREENWOOD & CO., Bedford (*see page 296*).  
 POND & SON, Blandford (*see page 253*).  
 VIPAN & HEADLY, Leicester (*see page 245*).  
 WAIDE, W., & SONS, Leeds.

**Cheese Colouring.**

OLDFIELD, PATTINSON, & CO., Manchester.

**Cheese-making Appliances.**

CARSON & TOONE, Warminster (*see page 244*).  
 CORBETT, T., Shrewsbury (*see page 251*).  
 POND & SON, Blandford (*see page 253*).

**Cheese Rennet Extract.**

OLDFIELD, PATTINSON, & CO., Manchester.

**Churns.**

BAMBER & CO., Preston (*see page 283*).  
 BRADFORD, T., & CO., Manchester.  
 DAIRY SUPPLY CO., Museum Street, Bloomsbury, W.C.  
 LISTER, R. A., & CO., Dursley.  
 LLEWELLIN, G., & SON, Haverfordwest (*see page 256*).  
 WAIDE, W., & SONS, Leeds.

**DAIRY APPLIANCES—Continued.****Cow-house Fittings.**

MACFARLANE, W., & CO., Glasgow (*see page 177*).  
 ST. PANCRAZ IRON CO., St. Pancras Road, N.W. (*see page 171*).  
 YOUNG & CO., 12, Victoria Street, S.W. (*see page 177*).

**Cream Separators and Creamers.**

DAIRY SUPPLY CO., Museum Street, Bloomsbury, W.C.  
 LISTER, R. A., & CO., Dursley (*see page 272A*).  
 POND & SON, Blandford (*see page 253*).  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Dairy Utensils (General).**

BRADFORD, T., & CO., Manchester.  
 CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).  
 DAIRY SUPPLY CO., Museum Street, Bloomsbury, W.C.  
 FREETH & POCOCK, Wandsworth Road, S.W.  
 HINDLEY, E. S., 11, Queen Victoria Street, E.C. (*see page 216*).  
 LISTER, R. A., & CO., Dursley (*see page 272A*).  
 LLEWELLIN, G., & SON, Haverfordwest (*see page 256*).  
 POND & SON, Blandford (*see page 253*).  
 RANDELL, F., North Walsham (*see page 246*).  
 VIPAN & HEADLY, Leicester (*see page 245*).  
 WAIDE, W., & SONS, Leeds.

**Milk Cans and Carriages.**

LISTER, R. A., & CO., Dursley.  
 RANDELL, F., North Walsham (*see page 246*).  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Milk Carts.**

BRISTOL WAGON WORKS CO., Bristol (*see page 174*).  
 RANDELL, F., North Walsham (*see page 246*).  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Milk Sterilizing Machines.**

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).

**Milk Testers.**

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).  
 LISTER, R. A., & CO., Dursley (*see page 272D*).

**Preservine.**

MANN, S., GREENWOOD & CO., Bedford (*see page 296*).

**Railway Milk Cans.**

LISTER, R. A., & CO., Dursley.  
 POND & SON, Blandford.  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Refrigerators.**

LISTER, R. A., & CO., Dursley (*see page 272A*).  
 POND & SON, Blandford.

**Rennet.**

FULLWOOD, R. J., & BLAND, 31, Belvedere Street,  
 Hoxton, N.

**ENGINES AND BOILERS.****Boilers, Steam.**

ABBOTT & CO., Newark-on-Trent (*see page 217*).

## ENGINES AND BOILERS, Boilers, Steam— *Continued.*

- BARFORD & PERKINS, Peterborough.  
 BELLAMY, JOHN, Byng Street, Millwall, E. (*see page 123*).  
 BLACKSTONE & Co., LTD., Stamford (*see pages 240F & G*).  
 BURRELL, C., & SONS, LTD., Thetford (*see page 204*).  
 GARRETT, R., & SONS, Leiston, R.S.O. (*see pages 206-7*).  
 GRAY, JAMES, Danvers Street, Chelsea, S.W. (*see page 299*).  
 HARTLEY & SUGDEN, LTD., Halifax.  
 HINDLEY, E. S., 11, Queen Victoria Street, E.C. (*see page 216*).  
 MARSHALL, SONS, & Co., LTD., Gainsborough (*see page 205*).  
 PULSOMETER ENGINEERING Co., LTD., 61-3, Queen Victoria Street, E.C. (*see page 265*).  
 RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 211*).  
 ROBINSON & AUDEN, Wantage (*see page 209*).  
 TASKER, W., & SONS, Andover (*see page 213*).  
 TURNER, E. R. & F., Ipswich (*see page 208*).  
 WHITEHEAD, J., & Co., Preston (*see page 264*).  
 WOODROFFE & Co., Rugeley, Staffs. (*see page 242*).

### Engines, Steam.

- BARFORD & PERKINS, Peterborough.  
 BLACKSTONE & Co., Stamford (*see pages 240F & G*).  
 BURRELL, C., & SONS, LTD., Thetford (*see page 204*).  
 GARRETT, R., & SONS, Leiston, R.S.O. (*see pages 206-7*).  
 HINDLEY, E. S., Bourton (*see page 216*).  
 MARSHALL, SONS, & Co., LTD., Gainsborough (*see page 205*).  
 RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 211*).  
 RICHMOND & CHANDLER, Manchester (*see page 244*).  
 ROBINSON & AUDEN, Wantage (*see page 209*).  
 TURNER, E. R. & F., Ipswich (*see page 208*).  
 WHITEHEAD, J., & Co., Preston (*see page 264*).  
 WOODROFFE & Co., Rugeley (*see page 242*).  
 WOODS & Co., Stowmarket (*see page 249*).

### Gas Engines.

- CROSSLEY BROS., Openshaw, Manchester.  
 TANGYES, LTD., Birmingham.

### Hot Air Engines.

- NORRIS & HENTY, LTD., 235, Upper Thames St., E.C.  
 (*see page 121*).

### Lubricating Oils.

- CARWARDINE, JOHN, & SON, Bedminster, Bristol.  
 TAYLOR, W. R., & Co., Liverpool (*see page v.*).

### Oil Engines.

- PRIESTMAN BROS., Hull.  
 WEYMAN & HITCHCOCK, Guildford.

## Traction, Portable and Semi-Portable Engines.

- AVELING & PORTER, Rochester.  
 BURRELL, C., & SONS, LTD., Thetford (*see page 204*).  
 FOWLER, J., & Co., LTD., Leeds.

## ENGINES AND BOILERS, Traction, Portable and Semi-Portable Engines— *Continued.*

- GARRETT, R., & SONS, Leiston, R.S.O. (*see pages 206-7*).  
 MARSHALL, SONS & Co., LTD., Gainsborough (*see page 205*).  
 RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 211*).  
 ROBINSON & AUDEN, Wantage (*see page 209*).  
 TASKER, W., & SONS, Andover (*see page 213*).  
 TURNER, E. R., & F., Ipswich (*see page 208*).

### Waterproof Engine Covers.

- MURTON, H. A., Newcastle-on-Tyne (*see page 162*).  
 PHILLIPS, C. D., Newport, Mon. (*see page 283*).  
 RANDS & JECKELL, Ipswich (*see page 239*).  
 SINGLETON, W., Lincoln (*see page 257*).

### Wind Engines.

- TITT, JOHN WALLIS, Warminster (*see page 267*).

## FARM IMPLEMENTS, &c. (*also see Carts and Waggons, Dairy Appliances, Haymaking Machinery, Harvesting Machinery, Engines, Water Supply and Power*).

### Baling Presses for Hay and Straw.

- BAMBER, JOSEPH, Preston.  
 BARFORD & PERKINS, Peterborough.  
 CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).  
 EDWARDS, T. A. W., Denbigh.  
 HOWARD, J. & F., Bedford.  
 LADD, J. H., 116, Queen Victoria Street, E.C.

### Belting, Machine, Leather.

- BLACKSTONE & Co., LTD., Stamford.  
 "GANDY" BELTING Co., LTD., Seacombe, Cheshire.  
 KEYWORTH, J. & H., & Co., Liverpool.  
 LISTER, R., & Co., Dursley, Gloucestershire.  
 NORRIS, S. E., & Co., Shadwell, E.

### Bins, Field.

- MALLON, R., Swaffham (*see page 272*).  
 POTTER, F. P., King's Lynn (*see page 271*).  
 THOMAS, E., & Co., Oswestry.

## Buildings, Farm (*see Building and Decorating*).

### Cattle and Sheep Medicines.

- BIGG, THOS., Leicester House, Great Dover Street, S.E.  
 (*see page 281*).  
 COOK, PRITCHARD & Co., East Clandon, Guildford (*see page 170*).  
 DAY, SON & HEWITT, 22, Dorset Street, W. (*see page 277*).  
 DAY & SONS, Crewe (*see page 278*).  
 JONES, J. MILTON, Worcester Street, Gloucester (*see page 170*).  
 PETTIFER, S., & SONS, Malmesbury (*see page 279*).  
 STRAWSON, G., Bishop's Castle (*see page 283*).  
 TOMLINSON & HAYWARD, Lincoln (*see page 280*).

**FARM IMPLEMENTS, &c.—Continued.****Chaff Cutters.**

CARSON & TOONE, Warminster (*see page 244*).  
 CORBETT, T., Shrewsbury (*see page 252*).  
 CROWLEY, J., & Co., LTD., Sheffield (*see page 258*).  
 LISTER, R. A., & Co., Dursley (*see page 272F*).  
 MALDON IRONWORKS Co., LTD., Maldon, Essex.  
 RICHMOND & CHANDLER, Manchester (*see page 244*).  
 ROBINSON & AUDEN, Wantage (*see page 209*).  
 TASKER, W., & SONS, Andover (*see page 214*).  
 VIPAN & HEADLY, Leicester (*see page 245*).  
 WOODROFFE & Co., Rugeley, Staffs.  
 WOODS & Co., Stowmarket.

**Corn Dressing Machines.**

BAKER, T., & SONS, Compton, Berkshire.  
 COLEMAN & MORTON, Chelmsford (*see page 220*).  
 CORBETT, T., Shrewsbury (*see page 252*).  
 RAINFORTH, W., & SONS, Lincoln (*see page 230*).  
 TASKER, W., & SONS, Andover (*see page 214*).

**Corn Sower for Plough.**

REEVES, R. & J., & SONS, Westbury (*see page 227*).

**Cribs, Cattle.**

LARKWORTHY, J. L., & Co., Worcester.  
 POTTER, F. P., King's Lynn (*see page 271*).

**Cultivators.**

CLAY, C., & Co., Wakefield (*see page 189*).  
 COLEMAN & MORTON, Chelmsford (*see page 220*).  
 CORBETT, T., Shrewsbury (*see page 250*).  
 DENTON, H., Wolverhampton.  
 ELDER, W., Berwick-on-Tweed (*see page 222*).  
 LARKWORTHY, J. L., & Co., Worcester.  
 PERKINS, J., & SONS, Lichfield (*see page 255*).  
 RAINFORTH, W., & SONS, Lincoln.  
 TASKER, W., & SONS, Andover (*see page 212*).

**Cultivators, Steam.**

BARFORD & PERKINS, Peterborough.  
 BURRELL, C., & SONS, LTD., Thetford (*see page 204*).  
 FOWLER, J., & Co., LTD., Leeds.

**Drain Pipes, &c. (*see Building*).****Drill Rollers.**

ELDER, WM., Berwick-on-Tweed (*see page 223*).

**Drills.**

CORBETT, T., Shrewsbury (*see page 250*).  
 ELDER, W., Berwick-on-Tweed (*see page 222*).  
 GARRETT, R., & SONS, Leiston, R.S.O., Suffolk.  
 GOWER, A. W., & SON, Market Drayton (*see page 224*).  
 HOLYOAK, T., & SONS, Narborough (*see page 225*).  
 PERKINS, J., & SONS, Lichfield (*see page 254*).  
 RAINFORTH, W., & SONS, Lincoln (*see page 230*).  
 REEVES, R. & J., & SON, Westbury (*see page 227*).  
 TASKER, W., & SONS, Andover (*see page 212*).  
 WALKER, F., Bingham (*see pages 228-9*).

**Engines (*see Engines and Boilers*).****FARM IMPLEMENTS, &c.—Continued.****Feeding Stuffs.**

AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD.,  
 3, Agar Street, Strand, W.C. (*see page 276*).  
 BIBBY, J., & SONS, Liverpool.  
 ERRINGTON, ROGER, Victoria Mills, Sunderland.  
 PHILLIPS, CHAS. D., Newport, Mon. (*see page 283*).  
 PHENIX OIL MILL Co., Liverpool.  
 THORLEY, JOSEPH, King's Cross, N.  
 WATERLOO MILLS CAKE Co., Wilmington, Hull.

**Fencing (*see Fencing, Gates, &c.*).****Harrow, Parmiter's.**

BLACKSTONE & Co., Stamford (*see page 240H*).

**Harrowa.**

BLACKSTONE & Co., Stamford (*see page 240H*).  
 CLAY, C., & Co., Wakefield (*see page 189*).  
 COLEMAN & MORTON, Chelmsford (*see page 220*).  
 CORBETT, T., Shrewsbury (*see page 250*).  
 DENTON, H., Wolverhampton (*see page 232*).  
 ELDER, W., Berwick-on-Tweed (*see page 222*).  
 HOWARD, J. & F., Bedford.  
 LARKWORTHY, J. L., & Co., Worcester (*see page 231*).  
 PERKINS, J., & SONS (*see page 255*).  
 RAINFORTH, W., & SONS, Lincoln.  
 RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 210*).  
 TASKER, W., & SONS, Andover (*see page 212*).  
 VIPAN & HEADLY, Leicester.  
 WOODS & Co., Stowmarket, Suffolk.

**Haymakers (*see Haymaking Machinery*).****Hoes, Horse.**

CARSON & TOONE, Warminster (*see page 244*).  
 CLAY, C., & Co., Wakefield (*see page 189*).  
 CORBETT, T., Shrewsbury (*see page 250*).  
 DENTON, H., Wolverhampton.  
 ELDER, W., Berwick-on-Tweed (*see page 222*).  
 LARKWORTHY, J. L., & Co., Worcester.  
 PERKINS, J., & SONS, Lichfield (*see page 254*).  
 REEVES, R. & J., & SON, Westbury (*see page 226*).  
 TASKER, W., & SONS, Andover (*see page 212*).  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Hoists.**

ABBOTT & Co., Newark-on-Trent (*see page 218*).

**Hop Syringing Machines.**

COLEMAN & MORTON, Chelmsford (*see page 220*).

**Horse Gears.**

BLACKSTONE & Co., Stamford (*see page 240H*).  
 CARSON & TOONE, Warminster (*see page 244*).  
 CROWLEY, J., & Co., Sheffield (*see page 259*).  
 DENTON, H., Wolverhampton.  
 LISTER, R. A., & Co., Dursley (*see page 272D*).  
 MALDON IRON WORKS Co., Maldon, Essex.  
 NICHOLSON, W. N., & SONS, Newark.  
 RICHMOND & CHANDLER, Manchester (*see page 244*).  
 TASKER, W., & SONS, Andover (*see page 214*).  
 WOODS & Co., Stowmarket (*see page 248*).



**FARM IMPLEMENTS, &c.—Continued.****Lamb Creeps.**CARSON & TOONE, Warminster (*see page 244*).**Land Presses.**TASKER, W., & SONS, Andover (*see page 212*).**Lathyrus Silvestris.**CLOTTON, F. E., 258, High Holborn, W.C. (*see page 268*).**Liquid Manure Carts (*see Carts and Waggon*s).****Litter Cutters.**CROWLEY, J., & Co., Sheffield (*see page 258*).RICHMOND & CHANDLER, Manchester (*see page 244*).**Manure Distributors.**

BRISTOL WAGON WORKS Co., Bristol.

REEVES, R. & J., & SON, Westbury (*see page 227*).**Manures, Artificial.**AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD.,  
3, Agar Street, Strand, W.C. (*see page 275*).

FARMER, T., &amp; Co., LTD., Billiter Buildings, E.C.

HULL OIL MANUFACTURING Co., LTD., Hull (*see page 284*).

LAWES' CHEMICAL MANURE Co., LTD., 59, Mark Lane, E.C.

PROCTOR &amp; RYLAND, Carr's Lane, Birmingham.

REEVES & Co., 56, Hinton Road, Camberwell, S.E.  
(*see page 312*).**Mills, Bone.**CROSSKILL, W., & SONS, Beverley (*see page 221*).NICHOLSON, W. N., & SONS, Newark (*see page 240*).**Mills, Cake-Breaking.**

BARFORD &amp; PERKINS, Peterborough.

BLACKSTONE & Co., Stamford (*see page 240H*).CARSON & TOONE, Warminster (*see page 244*).COLEMAN & MORTON, Chelmsford (*see page 220*).CORBETT, T., Shrewsbury (*see page 252*).LISTER, R. A., & Co., Dursley (*see page 272D*).

MALDON IRON WORKS Co., Maldon, Essex.

NICHOLSON, W. N., &amp; SONS, Newark.

RICHMOND & CHANDLER, Manchester (*see page 244*).TASKER, W., & SONS, Andover (*see page 214*).

VIPAN &amp; HEADLY, Leicester.

WOODROFFE &amp; Co., Rugeley.

WOODS & Co., Stowmarket (*see page 248*).**Mills for Grinding, Bruising, Kibbling, &c.**

BARFORD &amp; PERKINS, Peterborough.

BLACKSTONE & Co., Stamford (*see page 240H*).

BURRELL, C., &amp; SONS, LTD., Thetford.

CROWLEY, J., & Co., LTD., Sheffield (*see page 259*).LISTER, R. A., & Co., Dursley (*see page 272E*).

MALDON IRON WORKS Co., Maldon, Essex.

MARSHALL, SONS & Co., LTD., Gainsborough (*see page 205*).

NICHOLSON, W. N., &amp; SONS, Newark.

RICHMOND & CHANDLER, Manchester (*see page 244*).TASKER, W., & SONS, Andover (*see page 214*).**FARM IMPLEMENTS, &c., Mills for Grinding, Bruising, Kibbling, &c.—Continued.**TURNER, E. R. & F., Ipswich (*see page 208*).

VIPAN &amp; HEADLY, Leicester.

WOODROFFE & Co., Rugeley (*see page 248*).WOODS & Co., Stowmarket (*see pages 248-9*).**Mole Traps.**BRENDON BROS., Callington, Cornwall (*see page 283*).**Mowers (*see Haymaking Machinery*).****Oil-cakes (*see Feeding Stuffs*).****Peat Moss Machinery.**CLOTTON, F. C., 258, High Holborn, W.C. (*see page 268*).

NICHOLSON, Wm., &amp; SON, Newark-on-Trent.

**Piggery Fittings, Iron.**ST. PANCRAS IRONWORKS Co., St. Pancras Road, N.W.  
(*see page 171*).**Ploughing Tackle, Steam.**

BARFORD &amp; PERKINS, Peterborough.

BURRELL, C., & SONS, LTD., Thetford (*see page 204*).

FOWLER, J., &amp; SONS, Leeds.

MARSHALL, SONS & Co., Gainsborough (*see page 205*).RAMSOMES, SIMS & JEFFERIES, Ipswich (*see page 211*).TASKER, W., & SONS, Andover (*see page 213*).**Ploughs and Appliances.**CORBETT, T., Shrewsbury (*see page 250*).ELDER, W., Berwick-on-Tweed (*see page 222*).

HORNSBY &amp; SONS, LTD., Grantham.

HOWARD, J. &amp; F., Bedford.

LARKWORTHY, J. L., &amp; Co., Worcester.

NICHOLSON, W. N., &amp; SONS, Newark.

PERKINS, J., & SONS, Lichfield (*see page 255*).RAMSOMES, SIMS & JEFFERIES, Ipswich (*see page 210*).REEVES, R. & J., & SONS, Westbury (*see page 227*).TASKER, W., & SONS, Andover (*see page 212*).**Potato Diggers.**COLEMAN & MORTON, Chelmsford (*see page 220*).**Pumps, Barrow.**BAKER, T., & SONS, Compton, Berkshire (*see page 219*).OSMOND, Ramsbury, Wilts. (*see page 300*).

REEVES, R. &amp; J., &amp; SONS, Westbury.

**Pumps, Chain (*also see Water Supply*).**BAKER, T., & SONS, Compton, Berkshire (*see page 219*).

RANDELL, F., North Walsham.

REEVES, R. & J., & SON, Westbury (*see page 226*).

TASKER, W., &amp; SONS, Andover.

**Road Rollers, Steam.**

AVELING &amp; PORTER, Rochester.

BURRELL, C., & SONS, Thetford (*see page 204*).**Road Sweeping Machines.**COLEMAN & MORTON, Chelmsford (*see page 220*).**Racks, Sheep.**HOLYOAK, T., & SONS, Narborough (*see page 225*).

LARKWORTHY, J. L., &amp; Co., Worcester.

**FARM IMPLEMENTS, Racks, Sheep—**  
*Continued.*MALLON, R., Swaffham (*see page 272*).POTTER, F. P., King's Lynn (*see page 271*).

THOMAS, E., &amp; Co., Oswestry.

**Rakes** (*see Haymaking Machinery*).**Reapers** (*see Harvesting Machinery*).**Rollers and Clod Crushers.**

BARFORD &amp; PERKINS, Peterborough.

BLACKSTONE & Co., Stamford (*see page 240H*).

DENTON, H., Wolverhampton.

PERKINS, J., & Sons, Lichfield (*see page 255*).**Root Pulpers, Cutters, Slicers, &c.**BLACKSTONE & Co., Stamford (*see page 240H*).CARSON & TOONE, Warminster (*see page 244*).CROWLEY, J., & Co., Sheffield (*see page 289*).ELDER, WM., Berwick-on-Tweed (*see page 222*).

MALDON IRON WORKS Co., Maldon, Essex.

RANDELL, F., North Walsham (*see page 246*).RICHMOND & CHANDLER, Manchester (*see page 244*).TASKER, W., & Sons, Andover (*see page 214*).VIPAN & HEADLY, Leicester (*see page 245*).

WOODBOFFE &amp; Co., Rugeley.

**Sacks and Bags.**EDGINGTON, J., & Sons, 19, Long Lane, E.C. (*see page 257*).RANDS & JECKELL, Ipswich (*see page 238*).SINGLETON, W., Lincoln (*see page 257*).**Scarifiers** (*see Cultivators*).**Seed Distributors.**CORBETT, T., Shrewsbury (*see page 250*).ELDER, W., Berwick-on-Tweed (*see page 222*).GOWER, A. W., & Son, Market Drayton (*see page 224*).REEVES, R. & J., & Son, Westbury (*see page 227*).**Seeds, Farm.**AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD.,  
Dyott St., New Oxford St., W.C. (*see page 274*).

CARTER, JAMES, &amp; Co., 237-8 &amp; 98, High Holborn, W.C.

HARRISON & SONS, Leicester (*see page 284*).LITTLE & BALLANTYNE, Carlisle (*see page 195*).SUTTON & SONS, Reading (*see page 180*).**Sheep Dipping Apparatus.**BIGG, THOS., Leicester House, Great Dover Street, S.E.  
(*see page 281*).MALLON, RICHARD, Swaffham (*see page 272*).POTTER, F. P., King's Lynn (*see page 271*).**Sheep Dipping Composition.**BIGG, THOS., Leicester House, Great Dover Street, S.E.  
(*see page 281*).TOMLINSON & HAYWARD, Lincoln (*see page 280*).**Sheep Ear Marks.**TOMLINSON & HAYWARD, Lincoln (*see page 280*).**Sheep Hurdles.**

CARSON &amp; TOONE, Warminster.

**FARM IMPLEMENTS, &c.—Continued.****Sheep Netting.**EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).RANDS & JECKELL, Ipswich (*see page 238*).**Sheep Scab Specific.**BIGG, THOS., Leicester House, Great Dover Street, S.E.  
(*see page 281*).**Sheep Sheltering Cloths.**RANDS & JECKELL, Ipswich (*see page 239*).**Shepherds' Huts.**TASKER, W., & Sons, Andover (*see page 214*).**Soft Soap.**CHISWICK SOAP Co., Chiswick, W. (*see page 297*).**Steam Generators.**LISTER, R. A., & Co., Dursley (*see page 272A*).**Steam Rollers.**

AVELING &amp; PORTER, Rochester.

BURRELL, C., & Sons, LTD., Thetford (*see page 204*).

FOWLER J., &amp; Co., LTD., Leeds.

MARSHALL, SONS, &amp; Co., LTD., Gainsborough.

RANSOMES, SIMS &amp; JEFFERIES, Ipswich.

ROBINSON &amp; AUDEN, Wantage.

TASKER, W., &amp; Sons, Andover.

**Tents and Flags for Shows.**EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).RANDS & JECKELL, Ipswich (*see page 238*).**Thrashing Machine Covers.**RANDS & JECKELL, Ipswich (*see page 239*).SINGLETON, W., Lincoln (*see page 257*).**Thrashing Machines.**BURRELL, C., & Sons, Thetford (*see page 204*).

CLAYTON &amp; SHUTTLEWORTH, Lincoln.

GARRETT, R., &amp; Sons, Leiston, R.S.O.

MARSHALL, SONS & Co., LTD., Gainsborough (*see page 205*).RANDS & JECKELL, Ipswich (*see page 239*).RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 211*).ROBINSON & AUDEN, Wantage (*see page 209*).TASKER, W., & Sons, Andover (*see page 213*).**Traction and Portable Engines** (*see Engines*).**Troughs.**

BAKER, T., &amp; Sons, Compton, Berkshire.

BELLAMY, JOHN, Byng Street, Millwall, E. (*see page 123*).BURNBY & Co., Millwall, E. (*see page 123*).

LARKWORTHY, J. L., &amp; Co., Worcester.

MAIN, A. & J., 77A, Queen Victoria Street, E.C. (*see page 263*).MALLON, RICHARD, Swaffham (*see page 272*).

### **FARM IMPLEMENTS, &c., Troughs—** *Continued.*

- MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).  
 PERKINS, J., & SONS, Lichfield.  
 POTTER, F. P., King's Lynn (*see page 271*).  
 RANDELL, F., North Walsham (*see page 246*).  
 THOMAS, E., & Co., Oswestry.  
 WOODROFFE & Co., Rugeley.

#### **Trussing Cord.**

- RANDS & JECKELL, Ipswich (*see page 238*).

#### **Waggons (*see Carts and Waggons*).**

#### **Water Carts (*see Carts and Waggons*).**

#### **Weighing Machines.**

- AVERY, W. & T., Birmingham.  
 MCJANNET, J. D., Stirling, N.B. (*see page 247*).  
 POOLEY, H., & SON, Liverpool.  
 RAINFORTH, W., & SONS, Lincoln.  
 WOOD, A., & SONS, Glasgow.

#### **Whippletrees.**

- CLAY, C., & Co., Wakefield (*see page 189*).  
 COLEMAN & MORTON, Chelmsford (*see page 220*).  
 CORBETT, T., Shrewsbury (*see page 250*).  
 PERKINS, J., & SONS, Lichfield (*see page 255*).  
 RANSOMES, SIMS & JEFFERIES, Ipswich.  
 REEVES, R. & J., & SONS, Westbury.  
 VIPAN & HEADLY, Leicester (*see page 245*).

#### **Wind-Mills (*see Water Supply*).**

### **FENCING, GATES, &c.**

#### **Black Varnish for Fencing, &c.**

- BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).  
 GRIFFIN, WILLIAM, Luda Works, Louth.  
 HERBERTSON, D., & Co., Beaconsfield Works, Wolverhampton.  
 HILL & SMITH, Brierley Hill, Staffordshire.  
 JOHNSON BROS., & Co., LTD., 6, Waterloo Place, S.W., and Walsall, Staffordshire (*see page 260*).  
 MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C. (*see page 262*).  
 MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).

#### **Entrance Gates, Iron.**

- BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).  
 JOHNSON BROS. & Co., LTD., 6, Waterloo Place, S.W. (*see page 260*).  
 MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C. (*see page 262*).

#### **Entrance Gates, Wood.**

- BAGGINS, G. F., & Co., Banbury (*see page 270*).  
 MALLON, RICHARD, Swaffham (*see page 272*).  
 POTTER, FRANK P., King's Lynn (*see page 271*).

### **FENCING, GATES, &c.—Continued.**

#### **Fencing—Iron, and Materials.**

- ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
 BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).  
 BOULTON & PAUL, Norwich (*see page 170*).  
 DENNIS, W. F., & Co., 11, Billiter Street, E.C. (*see page 138*).  
 JOHNSON BROS. & Co., LTD., 6, Waterloo Place, S.W. (*see page 260*).  
 MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C. (*see page 262*).  
 MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).

#### **Fencing, Wood.**

- ARMSTRONG, ADDISON & Co., Sunderland (*see page 247*).  
 BRAGGINS, G. F., & Co., Banbury (*see page 270*).  
 MALLON, RICHARD, Swaffham (*see page 272*).  
 POTTER, FRANK P., King's Lynn (*see page 271*).  
 STENNING, JOHN, & SON, 11, Clement's Lane, E.C.

#### **Wire Netting, Galvanized.**

- ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
 BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).  
 BOOBYER, J. H., & SONS, 13-14, Stanhope Street, W.C.  
 BOULTON & PAUL, Norwich (*see page 170*).  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).  
 DENNIS, W. F., & Co., 11, Billiter Street, E.C. (*see page 138*).  
 JOHNSON BROS. & Co., LTD., 6, Waterloo Place, S.W. (*see page 260*).  
 MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C. (*see page 262*).  
 MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).  
 TREGGON & Co., LTD., Brewery Road, London, N.

### **FISHING.**

#### **Boots, Fishing.**

- ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
 FAGG BROS., 29, Haymarket, W. (*see page 154*).  
 HAMMETT, SCOTT, Wellington, Somerset (*see page 146*).  
 MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

#### **Brogues, Fishing.**

- ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
 MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**FISHING—Continued.****Coats, Fishing.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).  
THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**Deep Sea Tackle.**

HERNDEN & SON, 195, Union Street, Plymouth.  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**Eel Traps.**

CLIFFORD, ALFRED, Hawley, Kent (*see page 167*).

**Hats, Fishing.**

HEATH, HENRY, 24-25, St. George's Place, S.W. (*see page 160c*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).  
FREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Jackets, Fishing.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Knee Boots, Fishing.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Stockings, Fishing.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**Tackle, Fishing.**

BARTLEET, W., & SONS, Redditch.  
BERNARD, J., & SON, 5, Church Place, Piccadilly, S.W. (*see page 167*).  
BRADDELL, J., & SON, Belfast.  
BROWN, WILLIAM, 64, George Street, Aberdeen.  
ENRIGHT, JOHN, & SON, Castle Connell, near Limerick.  
FARLOW, C., & CO., LTD., 191, Strand, W.C.  
FOSTER, Ashbourne, Derbyshire.  
HANCOCK, W. T., & CO., 308, High Holborn, W.C.  
HARDY BROS., Alnwick (*see page 164*).  
HERNDEN & SON, 195, Union Street, Plymouth.  
LITTLE, G., & CO., 63, Haymarket, W.  
MOSCROP, J. B., 25, Market Place, Manchester.  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 159*).  
SLATER, DAVID, & CO., Newark-on-Trent.

**Trousers, Fishing.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).  
THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**Waders.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**FURNITURE AND HOUSEHOLD REQUISITES (*also see Building and Decorating*).****Ambulances.**

MORRIS, J., & SONS, Cross Lane, Manchester (*see page 180*).

**Anthracite Smokeless Coal.**

LONDON WARMING AND VENTILATING CO., LTD., 105, Regent Street, W.

**Aquaria.**

CUTLER, WM., 89, Snow Hill, Birmingham (*see page 301*).

**Barometers and Thermometers.**

BROWNING, JOHN, 63, Strand, W.C.  
DOLLOND & CO., 35, Ludgate Hill, E.C.  
NEGRETTI & ZAMBRA, 38, Holborn Viaduct, E.C.; 45, Cornhill, E.C.; and 122, Regent Street, W.  
PILLISCHER, J., 88, New Bond Street, W.  
ROSS & CO., 111, New Bond Street, W.

**Bath Chairs.**

PNEUMATIC WHEEL CO., LTD., 6, Gray's Inn Road, W.C. (*see page 119*).

**Billiard Table Lamps.**

ROSS-ATKINS SUNLIGHT OIL LAMP CO., LTD., 171-2, Hockley Hill, Birmingham (*see page 116*).

**Billiard Tables.**

BURROUGHS & WATTS, LTD., 19, Soho Square, W.C. (*see page 119*).

ORME & SONS, 16, Soho Square, W.C.; St. George's Place, Glasgow; Blackfriars, Manchester.

THURSTON & CO., 16, Catherine Street, Strand, W.C.  
WRIGHT & CO., 158-164, Westminster Bridge Road, S.W.

**Blinds.**

JANES & SON, 101, Aldersgate Street, E.C., and 5, Rupert Street, Piccadilly Circus, W.  
THOMPSON, H. J., Montpelier Row, Blackheath, S.E. (*see page 128*).

WILLIAMS, G. A., & SON, 21, Queen's Road, W. (*see page 140*).

WILLIAMS, J., Jubilee Place, Chelsea, S.W. (*see page 127*).

**Brocades.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

**Bronzes and Terra-Cottas.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

**Burglar-Proof Safes.**

PRICE, GEORGE, LTD., Wolverhampton (*see page 96*).

**Candelabra.**

PERRY & CO., 17, Grafton Street, W. (*see page 102*).

**Candles.**

CARWARDINE, JOHN, & SON, Bedminster, Bristol.

**Carpets and Rugs.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

## FURNITURE AND HOUSEHOLD REQUISITES—Continued.

### Cellar Appliances.

BURROW, W. & J., 62-68, Gt. Tower Street, E.C. (see page 109).

FARROW & JACKSON, 8, Haymarket, W. (see page 106).

KING & SMITH, 59, Haymarket, W. (see pages 110-111).

### Chandeliers.

PERRY & Co., 17, Grafton Street, W. (see page 102).

### Chimney Sweeping Machines.

ASHFORD, W. & G., Essex Street, Birmingham (see page 117).

### China and Glass.

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

OSLER, F. & C., 100, Oxford Street, W.

### Church and School Furniture.

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.

JONES & WILLIS, 43, Great Russell Street, W.C., and Birmingham.

### Coal.

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

### Coal Bins.

BELLAMY, JOHN, Millwall, E. (see page 123).

BURNEY & Co., Millwall, E. (see page 123).

### Cosy Corners.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see page 115).

HAMPTON & SONS, Pall Mall East, S.W. (see page 99).

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

### Crotonnes.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see page 114).

### Cutlery, "Queen's."

MAPPIN BROS., 220, Regent Street, W. (see page 105).

### Draperies for Sculpture.

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (see page 103).

### Easy Chairs.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see page 115).

HAMPTON & SONS, Pall Mall East, S.W. (see page 99).

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

### Electric Light Fittings.

OSLER, F. & C., 100, Oxford Street, W.

PERRY & Co., 17, Grafton Street, W. (see page 102).

### Electric Lighting (see Building & Decorating).

### Filters.

BARSTOW, JACOB, & SONS, Pontefract.

LONDON AND GENERAL WATER PURIFYING CO., LTD., 157, Strand, W.C.

## FURNITURE AND HOUSEHOLD REQUISITES—Continued.

### Fire Engines and Escapes.

DICK, W. B., 16, Market Place, Manchester (see page 129).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see pages 130-7).

PULSOMETER ENGINEERING CO., LTD., 61-3, Queen Victoria Street, E.C. (see page 265).

### Fire Extinguishers.

DICK, W. B., 16, Market Place, Manchester (see page 129).

MESSEY & THORPE, 8, Quality Court, W.C. (see page 144).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see pages 130-7).

### Fire Hose, Stand Pipes, &c.

DICK, W. B., 16, Market Place, Manchester (see page 129).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see pages 130-7).

### Fire Hydrants.

DICK, W. B., 16, Market Place, Manchester (see page 129).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see pages 130-7).

### Firemen's Uniforms and Accoutrements.

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see pages 130-7).

### Fire-proof Safes.

PRICE, GEORGE, LTD., Wolverhampton (see page 98).

### Fishing-box Furniture.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see page 115).

HAMPTON & SONS, Pall Mall East, S.W. (see page 99).

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

### Freezing Machines and Wine Coolers.

PISTON FREEZING MACHINE AND ICE Co., 301-303, Oxford Street, W. (see page 104).

### Furniture.

DRUCE & Co., Baker Street, W.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see pages 114-5).

HAMPTON & SONS, Pall Mall East, S.W. (see page 99).

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 112).

HEWETSON, LTD., Tottenham Court Road, W.

HOLBOYD, BARKER & Co., 488, Oxford Street, W.

HOWARD & SONS, Berners Street, W.

MAPLE & Co., Tottenham Court Road, W.

SHOOLBRED & Co., Tottenham Court Road, W.

WHITELEY, WILLIAM, Westbourne Grove, W.

### Goehring Woodwork.

GILES, GODFREY, & Co., 19, Old Cavendish Street, W. (see page 114).

**FURNITURE AND HOUSEHOLD REQUISITES—Continued.****Groceries and Provisions.**

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Hall Furniture.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**House-boat Furniture.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Hunting-box Furniture.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Invalid Furniture.**

CARTER, ALFRED, 47, Holborn Viaduct, E.C.

PNEUMATIC WHEEL CO., LTD., 6, Gray's Inn Road, W.C. (*see page 119*).

**Kaffee-Kanne, Ash's.**

PISTON FREEZING MACHINE AND ICE CO., 301-303, Oxford Street, W. (*see page 104*).

**Knife Cleaners.**

CROWLEY, J., & Co., Sheffield (*see page 289*).

**Lamps.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

ROSS-ATKINS SUNLIGHT OIL LAMP CO., LTD., 171-2, Hockley Hill, Birmingham (*see page 116*).

**Lamp Shades.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

**Laundry Machinery.**

BRADFORD, T., & Co., Manchester.

SUMMERSCALES, W., & SONS, LTD., Keighley.

**Library Furniture.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Linens, Household.**

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 99*).

ROBINSON & CLEAVER, LTD., Belfast (*see page 113*).

WALPOLE BROS., 89, New Bond Street, W. (*see page 146*).

**FURNITURE AND HOUSEHOLD REQUISITES—Continued.****Mantels.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

**Marbles.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

BIRD & TUCKER, 145-7, Euston Road, N.W.

**Memorial Tablets.**

JONES & WILLIS, 43, Great Russell Street, W.C., and Birmingham.

**Mills for Coffee, Wheat, &c.**

LLOYD, T., & SONS, 327, Old Street, E.C. (*see page 124*).

**Mineral Water Racks (*see Cellar Appliances*).****Mineral Waters.**

CORRY & Co., Cromac Springs, Belfast.

MILLS, R. M., & Co., Bourne (*see page 98*).

**Needles.**

HARPER, THOS., Phoenix Needle Works, Redditch. Manufacturer of the celebrated Prize Needles with burnished gold eyes.

**Objects d'Art.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

**Oils, Lamp.**

TAYLOR, W. R., & Co., Liverpool (*see page v*).

**Oil Tanks.**

BELLAMY, JOHN, Millwall, E. (*see page 123*).

BURNEY & Co., Millwall, E. (*see page 123*).

**Organs.**

BELL ORGAN AND PIANO CO., LTD., 95, New Bond Street, W. (*see page 101*).

**Overmantels.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Pedestals, Marble, &c.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

**Pianofortes.**

BELL ORGAN AND PIANO CO., LTD., 95, New Bond Street, W. (*see page 101*).

BRINSMEAD, J., & SONS, 18-22, Wigmore Street, W.

BROADWOOD, J., & SONS, 33, Gt. Pulteney Street, Golden Square, W.

ERARD, S. & P., 18, Gt. Marlborough Street, W.

PLEYEL, WOLFF & Co., 170, New Bond Street, W.

**Plate, "Queen's."**

MAPPIN BROS., 220, Regent Street, W. (*see page 105*).

**FURNITURE AND HOUSEHOLD REQUISITES—Continued.****Refrigerators.**

PISTON FREEZING MACHINE AND ICE CO., 301-303, Oxford Street, W. (*see page 104*).

**Sauce, Table.**

SCOTT, A., & CO., Lansdown Hill, West Norwood, S.E. (*see page 124*).

**Sculpture.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

**Sculpture, Cleaned and Repaired.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

TAGNON, A., 340, Gray's Inn Road, W.C.

**Smoking Chairs.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Soap, Household.**

JEYES', 43, Cannon Street, E.C. (*see page 144*).

**Soft Soap.**

CHISWICK SOAP CO., Chiswick, W. (*see page 297*).

**Spirits.**

CRAWFORD, JOHN, Larne, Ireland.

**Tanagra Figures.**

BELLMAN, IVEY & CARTER, 157B, New Bond Street, W. (*see page 103*).

**Tapestries.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 114*).

**Turnery.**

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Wine Bins, Honeycomb.**

KING & SMITH, 59, Haymarket, W. (*see pages 100-111*).

**Wine Bins, Iron.**

BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).

BURROW, W. & J., 62-63, Great Tower Street, E.C. (*see page 109*).

FARROW & JACKSON, 8, Haymarket, W. (*see page 108*).

**Wine Coolers.**

PISTON FREEZING MACHINE AND ICE CO., 301-303, Oxford Street, W. (*see page 104*).

**FURNITURE AND HOUSEHOLD REQUISITES—Continued.****Wine Corking Machines.**

FARROW & JACKSON, 8, Haymarket, W. (*see page 108*).

**Wine Decanting Machines.**

BURROW, W. & J., 62-63, Great Tower Street, E.C. (*see page 109*).

FARROW & JACKSON, 8, Haymarket, W. (*see page 108*).

**Wire Mats.**

DENNIS, W. F., & CO., 11, Billiter Street, E.C. (*see page 138*).

**Yacht Furniture.**

GILES, GODFREY, & CO., 19, Old Cavendish Street, W. (*see page 115*).

HAMPTON & SONS, Pall Mall East, S.W. (*see page 99*).

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**GARDEN REQUISITES.****Arches, Garden.**

THOMAS, J. J., & CO., 87, Queen Victoria Street, E.C. (*see page 295*).

**Aviaries.**

BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).

MAIN, A. & J., & CO., 77A, Queen Victoria Street, E.C. (*see page 262*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

THOMAS, J. J., & CO., 360-2, Edgware Road, W. (*see page 294*).

**Banners and Flags.**

EDGINGTON, JOHN, & CO., 19, Long Lane, E.C. (*see page 165*).

MURTON, HENRY A., Grey Street and Market Street, Newcastle-on-Tyne (*see page 161*).

RANDS & JECKELL, Ipswich (*see page 238*).

UNITE, JOHN, 291, Edgware Road, W.

**Barrows.**

BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).

CROWLEY, JOHN, & CO., LTD., Sheffield.

HOLLIS BROS., & CO., Leicester (*see page 138*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

RANDELL, F., North Walsham (*see page 246*).

**Bee-hives and Appliances.**

WALTON, E. C., Muskham, Newark.

WESTMERIA CO., Leighton Buzzard.

**Begonias, Tuberous.**

LAING JOHN & SONS, Forest Hill, S.E.

PEARSON, J. R., & SONS, The Nurseries, Chilwell, Nottinghamshire (*see page 286*).

WARE, THOMAS S., Tottenham, N. (*see page 292*).



**GARDEN REQUISITES—Continued.****Chairs and Tables, Garden.**

THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
(see page 295).

VIPAN & HEADLY, Leicester (see page 245).

**Chrysanthemums.**

PEARSON, J. R. & SONS, Chilwell, Notts (see page 286).

**Cut Flower Boxes, Postal.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool (see page 166).

**Daffodils.**

BARR & SON, 12, King Street, Covent Garden W.C.

PEARSON, J. R., & SONS, Chilwell, Notts. (see page 286).

**Drills, Garden.**

GOWER, A. W., & SON, Market Drayton (see page 224).

**Edging and Paving.**

BOWSTONE CO., Maidstone (see page 127).

SOUTH STAFFORDSHIRE BLUE BRICK CO., LTD.,  
Cakemore, Blackheath, Dudley.

**Engines, Garden.**

OSMOND, Ramsbury, Wilts. (see page 300).

RANDELL, F., North Walsham (see page 246).

**Espalier Fruit Trees.**

PEARSON, J. R., & SONS, Chilwell, Notts. (see page 286).

**Espalier, Iron and Wire.**

BAYLISS, JONES & BAYLISS, Wolverhampton (see page 261).

MAIN, A. & J., & Co., 77A, Queen Victoria Street,  
E.C. (see page 262).

MOTLEY & GREEN, St. George's Street, Leeds (see page 298).

THOMAS, J. J., & Co., 360-2, Edgware Road, W. (see page 295).

**Flower Sticks, Bamboo, &c.**

CENTRAL IRONMONGERY STORES, 172, Queen Victoria  
Street, E.C. (see page 126).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
S.E. (see page 303).

**Fountains, Garden.**

BOWSTONE CO., Maidstone (see page 127)

MEADOW FOUNDRY CO., LTD., Mansfield (see page 300).

**Frames (see Horticultural Builders).****Fruit Boxes, Postal.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool  
(see page 166).

**Fruit Evaporators.**

CLOTTEN, F. E., 258, High Holborn, W.C. (see page 268).

**Fruit Gatherers.**

STANDARD MANUFACTURING CO., Derby (see page 302).

**GARDEN REQUISITES—Continued.****Fruit Trees.**

CHEAL, J., & SONS, Lowfield Nurseries, Crawley,  
Sussex (see page 302).

KEYNES, WILLIAMS & Co., Salisbury (see page 293).

PEARSON, J. R., & SONS, Chilwell, Notts. (see page 286).

**Fumigators.**

BLOXHAM, G., Gt. Brickhill, Bletchley (see page 297).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
S.E. (see page 303).

**Geraniums, Zonal Pelargoniums.**

PEARSON, J. R. & SONS, Chilwell, Notts (see page 286).

**Glass, Horticultural.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary  
Axe, E.C.

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.

CARSON, WALTER, & SONS, Grove Works, Battersea, S.W.

GRAY, JAMES, Danvers Street, Chelsea, S.W.

KING, T. C. R., Prince of Wales Road, Norwich.

**Glazing.**

PARAGON PATENT GLAZING AND ROOFING CO., Rabone  
Lane, Smethwick (see page 301).

**Greenhouse Boilers (see Heating Apparatus).****Greenhouse Heating Apparatus.**

ACME VENTILATING & HEATING CO., 35, Tarleton Street,  
Liverpool, and 13, King Street, Cheapside, E.C.

ASHTON & GREEN IRON CO., Bury Street, St. Mary  
Axe, E.C.

ATTWOOD, J., Foster Street, Stourbridge (see page 303).

BLEZARD, JAMES, & SONS, Guy Foundry, Padiham,  
Lancashire.

BOYD, JAMES & SONS, Macdowall Street, Paisley, N.B.

CRISPIN, JAMES, & SONS, Nelson Street, Bristol (see page 291).

GRAY, JAMES, Danvers Street, Chelsea, S.W. (see page 299).

HARTLEY & SUGDEN, LTD., Halifax.

JONES & ATTWOOD, Stourbridge (see page 292).

MACFARLANE, WALTER, & Co., Glasgow (see page 177).

MACKENZIE & MONCUR, Edinburgh, Glasgow and  
London.

MEADOW FOUNDRY CO., LTD., Mansfield (see page 300).

PORTWAY, CHAS., & SON, Halstead, Essex.

RED ROSE BOILER CO., LTD., Chester-le-Street. (see page 299).

RENTON, GIBBS & CO., LTD., Mill Street Works,  
Liverpool (see page 147).

RICHARDSON, W., & Co., Darlington.

SAUNDERS, SAM'L., 93-5, Upper Moss Lane, Hulme,  
Manchester.

SENDALL, JAMES, & Co., LTD., Cambridge (see page 290).

SKINNER & BOARD, Stokes Croft, Bristol.

TREGGON & Co., LTD., Brewery Road, N.

**Greenhouses (see Horticultural Builders).**

**GARDEN REQUISITES—Continued.****Greenhouses, Fittings for.**

THOMAS, J. J., & Co., 360-2, Edgware Road, W. (*see page 295*).

**Gullys, Garden.**

VINCE & VINE, 58, Chester Road, Upper Holloway, N. (*see page 302*).

**Hand Lights.**

CUTLER, WM., 89, Snow Hill, Birmingham (*see page 301*).

MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).  
SENDALL, J., & Co., LTD., Cambridge (*see page 290*).

**Horticultural Buildings.**

BOULTON & PAUL, Norwich.

BOYD, JAMES, & SONS, Paisley, N.B.

CRISPIN, JAMES, & SONS, Nelson Street, Bristol (*see page 291*).

CROMPTON, & FAWKES, Chelmsford.

GRAY, JAMES, Danvers Street, Chelsea, S.W. (*see page 299*).

HARDY, BRUIN & Co., Leicester.

HOPE, HENRY, 55, Lionel Street, Birmingham.

MACKENZIE & MONCUR, Edinburgh, Glasgow and London.

MEADOW FOUNDRY CO., Mansfield (*see page 300*).

MESSINGER & Co., Loughborough.

RICHARDSON, W., & Co., Darlington.

SENDALL, JAMES, & Co., LTD., Cambridge (*see page 290*).

SKINNER & BOARD, Stokes Croft, Bristol.

WEEKS, J., & Co., Chelsea, S.W.

WRINCH & SONS, Ipswich.

**Hose, Reels and Fittings.**

BOOBYER, J. H., & SONS, 13-14, Stanhope Street, W.C.

CENTRAL IRONMONGERY STORES, 172, Queen Victoria Street, E.C. (*see page 126*).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (*see page 130*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 159*).

**Insecticide Distributors.**

"STOTT" FERTILIZER AND INSECTICIDE CO., LTD., Barton House, Deansgate, Manchester.

**Insecticides.**

CHISWICK SOAP CO., Chiswick, W. (*see page 297*).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Knapsack Spraying Pumps.**

CLARK, CHAS. & Co., 20, Great St. Helen's, E.C. (*see page 302*).

**Labels.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool (*see page 166*).

PINCHES, JOHN, 3, Crown Buildings, Crown Street, Camberwell, S.E. (*see page 298*).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**GARDEN REQUISITES—Continued.****Landscape Gardeners (*see Nurserymen*).****Lawn Edge Clippers.**

RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 288*).

**Lawn Mowers.**

BARFORD & PERKINS, Peterborough (*see page 287*).

CROWLEY, JOHN, & Co., LTD., Sheffield (*see page 289*).

GREEN, T., & SONS, Blackfriars Road, S.E., and Leeds.

LLOYD, LAWRENCE & Co., 34, Worship Street, E.C. (*see page 299*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see page 288*).

SAMUELSON & Co., LTD., Banbury, Oxon.

SELIG, SONNENTHAL & Co., 85, Queen Victoria Street, E.C. (*see page 298*).

SHANKS & Co., LTD., Cannon Street, E.C.

**Lawn Sand.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Leaf Mould, Loam, &c.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Manures, Artificial.**

AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD., 3, Agar Street, Strand, W.C. (*see page 275*).

NATIVE GUANO CO., LTD., 29, New Bridge Street, E.C. (*see page 299*).

PEARSON, J. R., & SONS, Chilwell, Notts. (*see page 286*).

REEVES & Co., 56, Hinton Road, Camberwell, S.E. (*see page 312*).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Mats, Garden.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Narcissus.**

BARR & SON, 12, King Street, Covent Garden, W.C.

PEARSON, J. R., & SONS, Chilwell, Notts. (*see page 286*).

**Netting, Garden.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).

GASSON, HENRY, Rye (*see page 302*).

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth, S.E. (*see page 303*).

**Nurserymen.**

BARBON, WILLIAM, & SON, Elvaston Nurseries, Borrowash, Derby.

**GARDEN REQUISITES, Nurserymen—**  
*Continued.*

CHEAL, J., & SONS, Crawley (*see page 302*).  
 KEYNES, WILLIAMS & Co., Salisbury (*see page 293*).  
 LITTLE & BALLANTYNE, Carlisle.  
 PEARSON, J. R., & SONS, Chilwell, Notts. (*see page 286*).  
 SHILLING, C. R., Hartley Nurseries, Winchfield.  
 WARE, THOMAS S., Tottenham, N. (*see page 293*).

**Pea and Bean Trainers.**

MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
 (*see page 295*).

**Pea Guards.**

MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
 (*see page 295*).

**Potting Compost.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
 S.E. (*see page 303*).

**Raffia.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
 S.E. (*see page 303*).

**Rollers.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary  
 Axe, E.C.  
 BARFORD & PERKINS, Peterborough (*see page 287*).  
 BOOBYER, J. H., Sons, 13-14, Stanhope Street, W.C.  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria  
 Street, E.C.  
 MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).  
 RANSOMES, SIMS & JEFFERIES, LTD., Ipswich (*see  
 page 288*).

**Rollers, Water Ballast.**

BARFORD & PERKINS, Peterborough (*see page 287*).  
 MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).

**Rose Temples.**

THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
*see page 295*.

**Rustic Ware and Statuary.**

STANLEY BROS., Nuneaton (*see page 126*).

**Seats, Garden.**

BAYLISS, JONES & BAYLISS, Wolverhampton (*see  
 page 261*).  
 MEADOW FOUNDRY CO., LTD., Mansfield (*see page 300*).  
 THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
 (*see page 295*).  
 VIPAN & HEADLY, Leicester (*see page 245*).

**Seed Covers.**

CUTLER, WM., 89, Snow Hill, Birmingham (*see page 301*)

**Seeds and Bulbs.**

AGRICULTURAL & HORTICULTURAL ASSOCIATION, LTD.,  
 Dyott Street, New Oxford Street, W.C. (*see  
 page 273*).

**GARDEN REQUISITES, Seeds and Bulbs—**  
*Continued.*

CARTER, JAMES, & Co., 237-8 & 97, High Holborn, W.C.  
 CHEAL, J., & SONS, Lowfield Nurseries, Crawley (*see  
 page 302*).  
 CLARKE, J. G., 61, Pershore Street, Birmingham (*see  
 page 303*).  
 HARRISON & SONS, Leicester (*see page 284*).  
 KEYNES, WILLIAMS & Co., Salisbury (*see page 293*).  
 LITTLE & BALLANTYNE, Carlisle (*see page 195*).  
 PEARSON, J. R., & SONS, Chilwell, Notts. (*see page 286*).  
 SHILLING, C. R., Winchfield, Hants.  
 WARE, THOS. S., Tottenham, N. (*see page 293*).

**Shading for Greenhouses.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see  
 page 257*).  
 GRAY, JAMES, Danvers Street, Chelsea (*see page 299*).  
 RANDS & JECKELL, Ipswich (*see page 238*).  
 RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
 S.E. (*see page 303*).  
 WILLIAMS, G. A., & SON, 21, Queen's Road, Bayswater,  
 W. (*see page 140*).  
 WILLIAMS, JAMES, Jubilee Place, Chelsea, S.W. (*see  
 page 127*).

**Silver Sand.**

RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
 S.E. (*see page 303*).

**Soft Soap.**

CHISWICK SOAP CO., Chiswick, W. (*see page 297*).

**Spraying Pumps.**

CLARK, CHAS., & Co., 20, Great St. Helen's, E.C. (*see  
 page 302*).

**Tents, Garden.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see  
 page 165*).  
 MURTON, H. A., Newcastle-on-Tyne (*see page 161*).  
 RANDS & JECKELL, Ipswich (*see page 238*).

**Tiffany.**

EDGINGTON, JOHN, & Co., 19, Long Lane, West  
 Smithfield, E.C.  
 RANDS & JECKELL, Ipswich.

**Tools, Garden.**

BOOBYER, J. H., & SONS, 13-14, Stanhope Street,  
 W.C.  
 CENTRAL IRONMONGERY STORES, 172, Queen Victoria  
 Street, E.C. (*see page 126*).

**Tree Pruners.**

STANDARD MANUFACTURING CO., St. Ackmunds  
 Churchyard, Derby (*see page 302*).

**Trees and Shrubs.**

LITTLE & BALLANTYNE, Carlisle (*see page 195*).  
 PEARSON, J. R., & SONS, Chilwell, Notts. (*see page 286*).

**GARDEN REQUISITES—Continued.****Trellis, Wire.**

THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C.  
(see page 295).

**Trellis, Wood.**

WESTMINSTER PATENT FLOORING CO., 537F, King's  
Road, Chelsea, S.W., and 93, Queen Victoria  
Street, E.C. (see page 107).

**Vases, Garden.**

BOWSTONE CO., Maidstone (see page 127).  
MEADOW FOUNDRY, CO., LTD., Mansfield (see page 300).

**Vines.**

KEYNES, WILLIAMS & Co., Salisbury (see page 293).  
PEARSON, J. R., & SONS, Chilwell, Nottinghamshire  
(see page 286).

**Wall Fittings.**

BAYLISS, JONES & BAYLISS, Wolverhampton (see  
page 261).  
MOTLEY & GREEN, St. George's Street, Leeds (see  
page 298).  
THOMAS, J. J., & Co., 360-2, Edgware Road, W. (see  
page 295).

**Water Carts, Hand.**

OSMOND, Ramsbury, Wilts. (see page 300).  
RANDELL, F., North Walsham (see page 246).

**Weed Killer.**

GRIFFIN, WILLIAM, "Luda" Works, Louth, Lincoln-  
shire (see page 302).  
RICHARDS, G. H., Old Shot Tower Wharf, Lambeth,  
S.E. (see page 303).  
SMITH, MARK, Louth, Lincolnshire (see page 302).  
TOMLINSON & HAYWARD, Lincoln (see page 280).

**Wire Netting (see Fencing, Gates, &c.).****HARVESTING MACHINERY.****Reapers, Self-Binding.**

HORNSBY, R., & SONS, Grantham.  
HOWARD, J. & F., Bedford.  
KEYWORTH, J. & H., & Co., Liverpool (see page 233).  
SAMUELSON & Co., Banbury.  
WOOD, W. A., Worship Street, E.C.

**Reaper Twine.**

RANDS & JECKELL, Ipswich (see page 238).

**Reaping Machines.**

HARRISON, MCGREGOR & Co., Leigh, Lancashire.  
HORNSBY, R., & SONS, Grantham.  
HOWARD, J. & F., Bedford.  
KEYWORTH, J. & H., & Co., Liverpool.  
SAMUELSON & Co., Banbury.  
WOOD, W. A., Worship Street, E.C.

**Rick Covers, Creosoted Wood.**

ARMSTRONG, ADDISON, & Co., Sunderland (see page 247).

**HARVESTING MACHINERY—Continued.****Rick Covers, Galvanized Iron.**

MOTLEY & GREEN, St. George's Street, Leeds (see  
page 298).  
REDCLIFFE IRON WORKS CO., Bristol.

**Rick Stands, Iron.**

BAYLISS, JONES & BAYLISS, Wolverhampton (see  
page 261).  
HERBERTSON, D., & Co., Wolverhampton.  
MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C.  
(see page 263).  
MOTLEY & GREEN, St. George's Street, Leeds.

**HAYMAKING MACHINERY.****Elevators and Stackers.**

COLEMAN & MORTON, Chelmsford.  
MARSHALL, SONS, & Co., LTD., Gainsborough (see  
page 205).  
TASKER, W., & SONS, Andover (see page 213).  
TITT, J. W., Warminster.

**Ensilage Presses.**

SAMUELSON & Co., LTD., Banbury.

**Haymakers and Tedders.**

BARFORD & PERKINS, Peterborough (see page 236).  
BLACKSTONE & Co., Stamford (see page 240B & C).  
HOWARD, J. & F., Bedford.  
MALLET, T. T., Glastonbury (see page 237).  
NICHOLSON, W. N., & SONS, Newark (see page 240).  
RANSOMES, SIMS & JEFFERIES, Ipswich (see page 210).  
WOODROFFE & Co., Rugeley.

**Hay Rakes and Collectors.**

BLACKSTONE & Co., Stamford (see page 240E).  
ELDER, WM., Berwick-on-Tweed (see page 222).  
HOLYOAK, T., & SONS, Narborough.

**Horse Pitchforks.**

COLEMAN & MORTON, Chelmsford (see page 220).

**Horse Rakes.**

BLACKSTONE & Co., Stamford (see page 240D & E).  
NICHOLSON, W. N., & SONS, Newark (see page 240).  
RANSOMES, SIMS & JEFFERIES, Ipswich (see page 210).  
TASKER & SONS, Andover (see page 214).  
WOODROFFE & Co., Rugeley (see page 234).

**Mowers.**

BLACKSTONE & Co., Stamford (see page 240A).  
HARRISON, MCGREGOR & Co., Leigh, Lancashire.  
HORNSBY, R., & SONS, Grantham.  
HOWARD, J. & F., Bedford.  
KEYWORTH, J. & H., & Co., Liverpool (see page 232).  
SAMUELSON & Co., Banbury.  
WOOD, W. A., Worship Street, E.C.  
WOODROFFE & Co., Rugeley (see page 234).  
WOODS & Co., Stowmarket.

**HAYMAKING MACHINERY**—*Continued.***Mowers and Reapers, Combined.**BLACKSTONE & Co., Stamford (*see page 240A*).KEYWORTH, J. & H., & Co., Liverpool (*see page 232*).WOODROFFE & Co., Rugeley (*see page 234*).**Stack Covers, Canvas.**EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).MURTON, H. A., Newcastle-on-Tyne (*see page 162*).PHILLIPS, CHAS. D., Newport, Mon. (*see page 283*).RANDS & JEKELL, Ipswich (*see page 239*).SINGLETON, W., Lincoln (*see page 257*).**Stack Covers, Galvanized Iron** (*see Harvesting Machinery*).**Stack Thermometers.**CLAY, C., & Co., Wakefield (*see page 189*).

VIPAN &amp; HEADLY, Leicester.

**HUNTING** (*also see Riding and Driving, Personal Requirements, &c.*).**Boots, Hunting.**FAGG BROS., 29, Haymarket, W. (*see page 154*).HAMMETT, SCOTT, Wellington, Somerset (*see page 146*).**Breeches, Hunting.**CASTLE & MAILER, 76, Jermyn Street, S.W. (*see page 165*).NICHOLLS & Co., 30, Piccadilly, W. (*see page 168*).THOMAS & SONS, 32, Brook Street, W. (*see page 147*).**Coats, Hunting.**CASTLE & MAILER, 76, Jermyn St., S.W. (*see page 165*).MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).NICHOLLS & Co., 30, Piccadilly, W. (*see page 168*).THOMAS & SONS, 32, Brook Street, W. (*see page 147*).**Flasks.**BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 148*).MAPPIN BROS., 220, Regent Street, W. (*see page 153*).**Hats and Caps, Hunting.**HEATH, ROBT., 24-25, St. George's Place, S.W. (*see page 160A*).FREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).**Hats, Ladies' Riding.**HEATH, MRS., 24-25, St. George's Place, S.W. (*see page 160H*).**Hunting Horns.**DAVIS, A., & Co., 10, Strand, W.C. (*see page 172*).**Hunting Registers.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Kit Bags.**BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 148*).HEATH, ROBT., 24-25, St. George's Place, S.W. (*see page 160E*).**HUNTING.**—*Continued.***Saddles, Hunting.**DAVIS & Co., 10, Strand, W.C. (*see page 172*).HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 173*).**KENNEL APPLIANCES.****Books on Dogs.**DEAN & SON, LTD., 160A, Fleet Street, E.C. (*see page 178*).**Canine Surgeon.**

ROTHERHAM, CHAS. J., 55, South Molton Street, W.

**Disinfectants.**JEYES', 43, Cannon Street, E.C. (*see page 144*).**Dog Biscuits.**

FISH BISCUIT CO., LTD., Grimsby.

OLD CALABAR BISCUIT CO., LTD., 28, Chapel Street, Liverpool (*see page 179*).

RACKHAM &amp; Co., The Depôt, Norwich.

WRIGHT, H., &amp; Co., Mersey Chambers, Liverpool.

**Dog Medicines.**COOK, PRITCHARD & Co., Old Manor, East Clandon, Guildford (*see page 170*).DAY, SON & HEWITT, 22, Dorset Street, W. (*see page 277*).DAY & SONS, Crewe (*see page 278*).

EDWARDS, W., &amp; SON, 157, Queen Victoria Street, E.C.

RACKHAM &amp; Co., The Depôt, Norwich.

**Kennel Railing.**BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).**Kennels, Troughs, &c.**BOULTON & PAUL, Norwich (*see page 170*).MANN, GREENWOOD & Co., Bedford (*see page 296*).MOTLEY & GREEN, LTD., St. George's Street, Leeds (*see page 298*).**PERSONAL REQUIREMENTS** (*also see Hunting, Shooting, Fishing, Riding and Driving, Yachting, &c.*).**Air Cushions.**ANDEBSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).**Alpine Boots.**FAGG BROS., & Co., 29, Haymarket, W. (*see page 154*).**Bags.**BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see pages 148-149*).

DAVIS, A., &amp; Co., 10, Strand, W.C.

DREW & SONS, Piccadilly Circus, W. (*see page 150*).HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 173*).LAST, S., 165, New Bond Street, W. (*see page 152*).MAPPIN BROS., 220, Regent Street, W. (*see page 153*).MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**PERSONAL REQUIREMENTS—Continued.****Bandages and Belts.**

KINGSFORD & Co., 54, Piccadilly, W. (*see page 146*).

**Baths, Portable.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).

**Belts.**

KINGSFORD & Co., 54, Piccadilly, W. (*see page 146*).

**Boot Makers.**

FAGG BROS., 29, Haymarket, W. (*see page 154*).

HAMMETT, SCOTT, Wellington, Somerset (*see page 146*).

**Boot and Shoe Stands.**

PLATT, JAMES, & Co., 77, St. Martin's Lane, W.C.

**Bouquets and Cut Flowers.**

PEARSON, J. R., & Sons, Chilwell, Notts. (*see page 386*).

**Camp Furniture.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 165*).

**Canteens.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 165*).

**Caps, Travelling.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (*see page 160c*).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Cigars.**

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Dressing Cases.**

BARRETT, A., & Sons, 157-158, Piccadilly, W. (*see page 149*).

DREW & Sons, Piccadilly Circus, W. (*see page 150*).

LAST, S., 165, New Bond Street, W. (*see page 152*).

MAPPIN BROS., 220, Regent Street, W. (*see page 153*).

**Explorers' Tents.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 165*).

**Flasks.**

DAVIS, A., & Co., 10, Strand, W.C. (*see page 172*).

MAPPIN BROS., 220, Regent Street, W. (*see page 153*).

**Flask and Sandwich Cases.**

BARRETT, A., & Sons, 157-158, Piccadilly, W. (*see page 148*).

**Hair Brushes, Military.**

BARRETT, A., & Sons, 157-158, Piccadilly, W. (*see page 148*).

MAPPIN BROS., 220, Regent Street, W. (*see page 153*).

**Handkerchiefs, Cambric.**

ROBINSON & CLEAVER, Belfast (*see page 113*).

WALPOLE BROS., 89, New Bond Street, W. (*see page 146*).

**PERSONAL REQUIREMENTS—Continued.****Hat Cases.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (*see page 160e*).

LAST, S., 165, New Bond Street, W. (*see page 152*).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Hats.**

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

HEATH, ROBERT, 24-25, St. George's Place, S.W. (*see page 160a*).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Holdalls.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).

**Hosiery and Underclothing.**

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**Jewel Cases.**

LAST, S., 165, New Bond Street, W. (*see page 152*).

**Kit Bags.**

BARRETT, A., & Sons, 157-158, Piccadilly, W. (*see page 148*).

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 173*).

**Knapsacks.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 161*).

**Labels.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool. (*see page 166*).

**Ladies' Dressing Baskets.**

BARRETT, A., & Sons, 157-158, Piccadilly, W. (*see page 149*).

LAST, S., 165, New Bond Street, W. (*see page 152*).

**Ladies' Dress Materials.**

ROBINSON & CLEAVER, LTD., Belfast (*see page 113*).

**Ladies' Underclothing.**

ROBINSON & CLEAVER, LTD., BELFAST (*see page 113*).

**Military Boots and Spurs.**

FAGG BROS., 29, Haymarket, W. (*see page 154*).

KERBY, JOHN, & Co., 19, Cockspur Street, S.W. (late 70, Opera Colonnade, Haymarket, W.).

**Order Book for all Requirements.**

FISHER, EDEN, & Co., 50, Lombard Street, E.C. (*see page 304*).

**Overcoats, Fur Lined.**

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**PERSONAL REQUIREMENTS—Continued.****Pens.**

PERRY & Co., LTD., Holborn Viaduct, E.C. (*see page 98*).

**Perfumery.**

ATKINSON, J. & E., 24, Old Bond Street, W.  
CROWN PERFUMERY CO., THE, 177, New Bond Street, W. (*see page 98*).

**Photographers.**

LONDON STEREOSCOPIC CO., 106-8, Regent Street, W. (*see page 158*).

**Photographic Apparatus.**

LONDON STEREOSCOPIC COMPANY, 106-8, Regent Street, W. (*see page 158*).  
ROSS & Co., 111, New Bond Street, W.

**Picnic Hampers, Fitted.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 165*).  
HARBOD'S STORES, LTD., Brompton Road, S.W., (*see page 151*).

**Portmanteaux.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 149*).  
LAST, S., 165, New Bond Street, W. (*see page 152*).

**Purses and Wallets.**

LAST, S., 165, New Bond Street, W. (*see page 152*).

**Rugs, Travelling.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).  
MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).  
ROBINSON & CLEAVER, LTD., Belfast (*see page 118*).

**Shirts and Collars.**

ROBINSON & CLEAVER, Belfast (*see page 118*).

**Skates.**

BARRETT, A., & SONS, 157-8, Piccadilly, W. (*see page 148*).

**Spectacles and Eye-glasses.**

BROWNING, JOHN, 63, Strand, W.C.  
DOLLOND & Co., 35, Ludgate Hill, E.C.  
NEGRETTE & ZAMBRA, 38, Holborn Viaduct, E.C.;  
45, Cornhill, E.C. and 122, Regent Street, W.  
PILLISHER, J., 88, New Bond Street, W.  
ROSS & Co., 111, New Bond Street, W.

**Stationery.**

BLADES, EAST & BLADES, 23, Abchurch Lane, E.C.  
FISHER, EDEN, & Co., 50, Lombard Street, and 96-97, Fenchurch Street, E.C. (*See page 142*).

**Suit Cases, Fitted.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 149*).  
DREW & SONS, Piccadilly Circus, W. (*see page 150*).

**PERSONAL REQUIREMENTS, Suit Cases, Fitted—Continued.**

HARBOD'S STORES, LTD., Brompton Road, S.W. (*see page 173*).

LAST, S., 165, New Bond Street, W. (*see page 152*).

MAPPIN BROS., 153, Regent Street, W. (*see page 158*).

**Tailoring.**

ADIE, SCOTT, 115, Regent Street, W.  
BARTELS & Co., 16, Hanover Street, Hanover Square, W.  
BENJAMIN, B., & SONS, Ulster House, Conduit St., W.  
BOYD & Co., 77, Royal Avenue, Belfast.  
BURBURY & SONS, 30, Haymarket, W., & Basingstoke.  
CASTLE & MAILER, 76, Jermyn Street, St. James's, S.W. (*see page 165*).  
DEGE, J., & SON, 13, Conduit Street, W.  
HAMMOND & Co., 465, Oxford Street, W.  
HUNTSMAN, HENRY, 126, New Bond Street, W.  
NICHOLLS & Co., 30, Piccadilly, W. (*see page 168*).  
NICOLL, 114 to 120, Regent Street, W.  
RICE BROS., 23, New Bond Street, W.  
TAUTZ, & Co., 201, Piccadilly, W.  
TAUTZ, E., & SONS, 485, Oxford Street, W.  
THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**Tea Baskets.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 148*).  
DREW & SONS, Piccadilly Circus, W. (*see page 150*).

**Telescopes and Field Glasses.**

BROWNING, JOHN, 63, Strand, W.C.  
DOLLOND & Co., 35, Ludgate Hill, E.C.  
NEGRETTE & ZAMBRA, 38, Holborn Viaduct, E.C.;  
45, Cornhill, E.C. and 122, Regent Street, W.  
PILLISHER, J., 88, New Bond Street, W.  
ROSS & Co., 111, New Bond Street, W.

**Toilet Requisites.**

KINGSFORD & Co., 54, Piccadilly, W. (*see page 146*).

**Tourists' Cases.**

LAST, S., 165, New Bond Street, W. (*see page 152*).

**Trunks.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 149*).  
DREW & SONS, Piccadilly Circus, W. (*see page 150*).  
LAST, S., 165, New Bond Street, W. (*see page 152*).

**Typewriters.**

"CALIGRAPH," THE, 85, Queen Street, Cheapside, E.C. (*see page 313*).

**Umbrella Holders.**

HEATH, ROBERT, 24-25, St. George's Place, S.W. (*see page 160F*).  
STANDARD MANUFACTURING CO., Derby (*see page 302*).

**Umbrella Repairs.**

COKE, A., & SON, 339, Oxford Street, W. (*see page 146*).



**PERSONAL REQUIREMENTS—Continued.****Umbrellas and Walking Sticks.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 148*).

COKE, A., & SON, 339, Oxford Street, W. (*see page 146*).

HEATH, ROBERT, 24-25, St. George's Place, S.W. (*see page 160e*).

PREEDY, JOHN K., 12A, Regent Street, S.W. (*see page 155*).

**Watches.**

BENNETT, SIR JOHN, LTD., 65, Cheapside, E.C.

BENSON, J. W., 52-4, Ludgate Hill, E.C.

KEYS, DAVID, 91, Piccadilly, W.

**Waterproof Goods.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see pages 156-157*).

BURBERRY & SONS, 30, Haymarket, W. and Basingstoke.

CORDING, GEORGE, 125, Regent Street, W. and 28 Cookspur Street, S.W.

CORDING, J. C., & Co., 19, Piccadilly, W.

ELVERY, J. W., & Co., 31, Conduit Street, W.

FIELD, HENRY, 68, Piccadilly, W.

KING, MALCOM & Co., 19, Leicester Square, W.C.

MURTON, HENRY A., Newcastle-on-Tyne (*see pages 159-162*).

**POULTRY APPLIANCES.****Disinfectants.**

JEVES', 43, Cannon Street, E.C. (*see page 144*).

**Duck Houses.**

MANN, GREENWOOD & Co., Bedford (*see page 296*).

**Egg Boxes, Postal.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool (*see page 166*).

**Fowl Houses, Coops, Troughs, &c.**

BOULTON & PAUL, Norwich (*see page 170*).

MALLON, RICHARD, Swaffham (*see page 272*).

MANN, GREENWOOD & Co., Bedford (*see page 296*).

MOTLEY & GREEN, St. George's Street, Leeds (*see page 298*).

POTTER, FRANK, P. King's Lynn (*see page 271*).

THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).

**Incubators and Rearers.**

HEARSON, CHAS., & Co., LTD., 235, Regent Street, W. (*see page 297*).

MANN, GREENWOOD & Co., Bedford (*see page 296*).

SPENCER, E., & Co., 87, Fenchurch Street, E.C. (*see page 312*).

TUNNARD, CAPT., Rugby.

WESTMERIA Co., Leighton Buzzard (*see page 302*).

**Poultry Fencing.**

BAYLISS, JONES & BAYLISS, Wolverhampton (*see page 261*).

**POULTRY APPLIANCES, Poultry Fencing****—Continued.**

THOMAS, J. J., & Co., 87, Queen Victoria Street, E.C. (*see page 294*).

MANN, GREENWOOD & Co., Bedford (*see page 296*).

**Poultry Food.**

OLD CALABAR BISCUIT Co., LTD., 28, Chapel Street, Liverpool (*see page 179*).

SPRATT'S PATENT, LTD., Bermondsey, S.E.

WRIGHT, H., & Co., Mersey Chambers, Liverpool.

**Wire Netting** (*see Fencing, Gates, &c.*).

**RIDING AND DRIVING.****Aprons, Driving.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 157*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

**Belts and Bandages.**

KINGSFORD & Co., 54, Piccadilly, W. (*see page 146*).

**Boots, Livery.**

FAGG BROS., 29, Haymarket, W. (*see page 154*).

**Boots, Riding.**

FAGG BROS., 29, Haymarket, W. (*see page 154*).

HANMETT, SCOTT, Wellington, Somerset (*see page 146*).

**Box Coats.**

MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

**Breeches, Riding.**

NICHOLLS & Co., 30, Piccadilly, W. (*see page 168*).

THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**Carriages.**

BRAINSBY & SONS, 48-49, Long Acre, W.C.

BRISTOL WAGON AND CARRIAGE WORKS Co., Bristol (*see page 174*).

COLCLOUGH, JOHN, & SONS, Duke Street, Dublin.

HOOPER & Co., 107, Victoria Street, S.W.

LAURIE & MARNER, 311, Oxford Street, W.

LUCAS & Co., 72, New Bond Street, W.

MAYTHORN, J., & SON, Biggleswade, Beds.

MORGAN & Co., LTD., Long Acre, W.C.

THORN, Norwich.

THRUPP & MABERLY, 425-429, Oxford Street, W.

**Carriage Umbrella Holders.**

STANDARD MANUFACTURING Co., Derby (*see page 302*).

**Carriage Umbrellas.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (*see page 161d*).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Coats.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see pages 156-157*).

MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

NICHOLLS & Co., 30, Piccadilly, W. (*see page 168*).

THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**RIDING AND DRIVING—Continued.****Dog-Carts.**

BRISTOL WAGON AND CARRIAGE WORKS Co., Bristol  
(see page 174).

**Flasks.**

MAPPIN BROS., 220, Regent Street, W. (see page 153).

**Flasks and Sandwich Cases.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (see page 148).

**Fur Capes and Cuffs.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (see page 160d).

**Gloves.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (see page 160d).

LEE, T. P., & Co., LTD., 24, Duke Street, Bloomsbury, W.C.

**Harness and Saddlery.**

DAVIS, A., & Co., 10, Strand, W.C. (see page 172).

HARROD'S STORES, LTD., Brompton Road, S.W. (see page 173).

JARDINE, Nottingham.

JENKINSON, W., & Co., 18, Pantom Street, W.

TENNAN & SON, 29-30, Dawson Street, Dublin.

WHIPPY, STEGGALL & FLEMMING, 35-36, North Audley Street, W.

WHITE & COLEMAN, 4, Bishopsgate Street Without, E.C.

WILKINSON & KIDD, 5, Hanover Square, W.

**Hats and Caps.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (see page 160A).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (see page 155).

**Hats, Livery.**

HEATH, ROBT., 24-25, St. George's Place, S.W. (see page 160d).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (see page 155).

**Ladies' Hats and Caps.**

HEATH, MRS., 24-25, St. George's Place, S.W. (see page 160B).

**Ladies' Riding Habits.**

NICHOLS & Co., 30, Piccadilly, W. (see page 168).

**Ladies' Waterproofs.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (see page 157).

MURTON, HENRY A., Newcastle-on-Tyne (see page 160).

**Leggings.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (see page 157).

MURTON, HENRY A., Newcastle-on-Tyne (see page 160).

**RIDING AND DRIVING—Continued.****Phaetons, Wagonettes, &c.**

BRISTOL WAGON AND CARRIAGE WORKS Co., Bristol  
(see page 174).

**Safety Stirrups.**

HAMPSON & SCOTT, Walsall.

**Station Carts.**

BRISTOL WAGON AND CARRIAGE WORKS Co., Bristol  
(see page 174).

**Tandem Harness and Bars.**

WHITE & COLEMAN, 4, Bishopsgate Street Without, E.C.

**Thigh Knee Leggings.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (see page 157).

**Valises.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (see page 157).

**Waterproofs.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (see page 157).

MURTON, HENRY A., Newcastle-on-Tyne (see page 160).

**Whips.**

ASHFORD, W. & G., Essex and Kent Streets, Birmingham (see page 177).

**SHOOTING.****Ammunition (also see Guns).**

ADAMS & Co., 32, Finsbury Pavement, E.C.

AMMUNITION MANUFACTURING Co., LIMITED, 21, Addle Street, E.C.

ARMS AND AMMUNITION MANUFACTURING Co., 143, Queen Victoria Street, E.C.

BIRMINGHAM SMALL ARMS AND METAL Co., LTD., Adderley Park, Birmingham, and 5-6, Great Winchester Street, E.C.

COLONIAL AMMUNITION Co., LTD., THE, 16, Great George Street, S.W.

ELEY BROS., LTD., 254, Gray's Inn Road, W.C.

GEVELOT & Co., 143, Queen Victoria Street, E.C.

HARDY BROTHERS, Alnwick (see page 164).

HENRY RIFLED BARREL, ENGINEERING AND SMALL ARMS Co., LTD., THE (late Dyer & Robson), Woolwich Road; East Greenwich, S.E.

JOYCE, F., & Co., LTD., 57, Upper Thames Street, E.C.

KING'S NORTON METAL Co., LTD., Works, near Birmingham. London Office, 16, Great George Street, S.W.

KYNOCH, G., & Co., LTD., Lion Works, Witton, Birmingham. London Depot, 25, Heddon Street, Regent Street, W.

LANCASTER, CHARLES, 151, New Bond Street, W.

MAXIM NORDENFELDT GUNS AND AMMUNITION Co., LTD., 32, Victoria Street, S.W.

MORRIS TUBE, AMMUNITION AND SAFETY RANGE Co., LTD., THE, 11, Haymarket, S.W.

**SHOOTING, Ammunition—Continued.**

SMOKELESS POWDER CO., 11, Queen Victoria St., E.C.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).  
 WALSBRODE SMOKELESS AND WATERPROOF GUNPOWDER  
 Co., 65-66, Basinghall Street, E.C.

**Ball and Shot Guns.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Birds, Inanimate.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Boots, Shooting.**

FAGG BROS., 29, Haymarket, W. (*see page 154*).  
 HAMMETT, SCOTT, Wellington, Somerset (*see page 146*).

**"Breadalbane" Costume, The.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Bullets (also see Ammunition).**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Cartridges (also see Ammunition).**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Clay Birds.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Costumes.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
 MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).  
 NICHOLLS & CO., 30, Piccadilly, W. (*see page 168*).  
 THOMAS & SONS, 32, Brook Street, W. (*see page 147*).

**Gaiters, Shooting.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
 FAGG BROS., 29, Haymarket, W. (*see page 154*).  
 HAMMETT, SCOTT, Wellington, Somerset (*see page 146*).  
 LANCASTER, CHARLES, 151, New Bond Street, W.  
 MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

**Game Bags and Baskets.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).  
 LANCASTER, CHARLES, 151, New Bond Street, W.  
 MURTON, HENRY A., Newcastle-on-Tyne (*see page 160*).

**Game Books.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Game Boxes and Labels.**

BETHELL, THOS. P., 64, Stanley Street, Liverpool (*see page 166*).  
 LANCASTER, CHARLES, 151, New Bond Street, W.

**SHOOTING—Continued.****Game Foods.**

CHAMBERLAIN & SMITH, Norwich.  
 GILBERTSON & PAGE, Hertford.  
 SPRATT'S PATENT, LTD., Bermondsey, S.E.

**Game Registers.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Gloves, Shooting.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Gun Covers.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Guns.**

ADAMS & CO., 32, Finsbury Pavement, E.C.  
 BLAND, T., & SONS, 430, Strand, W.C.  
 BOSS & CO., 73, St. James' Street, S.W.  
 COGSWELL & HARRISON, 142, New Bond Street, W.  
 GREENER, W. W., 68, Haymarket, W.  
 HOLLAND & HOLLAND, 98, New Bond Street, W.  
 JEFFERY, W. J., & CO., 60, Queen Victoria Street, E.C.  
 LANG, JAMES, & CO., 102, New Bond Street, W.  
 LANG, JOSEPH, & SON, 10, Pall Mall, S.W.  
 REILLY, E. M., & CO., 277, Oxford Street, W.  
 RICHARDS, WESTLEY, & CO., 178, New Bond Street, W.  
 SILVER, S. W., & CO., 67, Cornhill, E.C.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).  
 WARRILOW, JAMES B., Chippenham.

**Hats, Caps, and Helmets.**

HEATH, ROBERT, 24-25, St. George's Place, S.W. (*see page 160A*).  
 PREKDY, JOHN KNOWLTON, 12A, Regent Street, W. (*see page 155*).

**Keepers' Wooden Houses, &c.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 MALLON, RICHARD, Swaffham (*see page 272*).  
 TASKER, W., & SONS, Andover (*see page 214*).

**Knives, Sporting.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**"Lancaster" Smock, The.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Lessons in Shooting.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Magazine Rifles and Cartridges.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Pistols.**

COLT'S PATENT FIRE ARMS MANUFACTURING CO., 26,  
 Glasshouse Street, W.  
 LANCASTER, CHARLES, 151, New Bond Street, W.  
 TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**SHOOTING.—Continued.****Rabbit Rifles.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Rabbit Traps and Netting.**

LANCASTER, CHARLES, 151, New Bond Street, W.

**Repeating Guns and Rifles.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Rifles.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Rook Rifles.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Spectacles, Shooting.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
ROSS & CO., 111, New Bond Street, W.

**Targets.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Traps, Clay Bird.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**Traps, Rabbit, &c.**

LANCASTER, CHARLES, 151, New Bond Street, W.  
TOLLEY, J. & W., 1, Conduit Street, W. (*see page 163*).

**STABLE REQUISITES (also see Riding and Driving, Hunting, &c.).****Breeding, Patent Doe.**

SMITH, G., & Co., 151, Strand, W.C. (*see page 170*).

**Carriage Jacks.**

EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).  
PORTWAY, CHAS., & SON, Halstead, Essex.

**Chaff Cutters (see Farm Implements).****Chamois Leather.**

LEE, T. P., & Co., LTD., 24, Duke Street, Bloomsbury, W.C.

**Corn Bins.**

BELLAMY, JOHN, Millwall, E. (*see page 123*).  
BURNBY & Co., Millwall, E. (*see page 123*).

**Corn Crushers.**

CROWLEY, JOHN, & Co., Sheffield (*see page 259*).  
LISTER, R. A., & Co., Dursley (*see page 272a*).

**Disinfectants.**

JEYES', 34, Cannon Street, E.C. (*see page 144*).

**Forage.**

HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 112*).

**STABLE REQUISITES.—Continued.****Halters, Adjustable.**

ASTLEY, JOHN, & SONS, LTD., Coventry (*see page 176*).

**Harness-room Fittings.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary Axe, E.C. (*see page 141*).  
EMLEY & SONS, LTD., Newcastle-on-Tyne (*see page 125*).  
ST. PANCRAS IRONWORKS CO., St. Pancras Road, N.W. (*see page 171*).

**Horse Clothing.**

DAVIS, A., & Co., 10, West Strand, W.C. (*see page 172*).  
HARROD'S STORES, LTD., Brompton Road, S.W. (*see page 178*).  
PHILLIPS, C. D., Newport, Mon. (*see page 283*).  
RANDS & JECKELL, Ipswich (*see page 288*).

**Horse Medicines, &c.**

COOK, FRITCHARD & Co., East Clandon, Guildford (*see page 170*).  
DAY, SON & HEWITT, Dorset Street, Portman Sq., W. (*see page 277*).  
DAY & SONS, Crewe (*see page 278*).  
JEYES', 48, Cannon Street, E.C. (*see page 144*).  
MIGHALL, THOS., Lodge Farm, Kington, Warwick (*see page 179*).  
WILSON, J. H., 20, South Parade, York (*see page 179*).

**Horse Nails.**

UNITED HORSE SHOE AND NAIL CO., LTD., Cubitt Town, E. (*see page 175*).

**Horse Shoes.**

UNITED HORSE SHOE AND NAIL CO., LTD., Cubitt Town, E. (*see page 175*).

**Locks and Fittings.**

KAYE & SONS, LTD., 77A, Great Queen Street, W.C. (*see page 119*).

**Loin Covers.**

EDGINGTON, JOHN, & Co., 19, Long Lane, E.C. (*see page 257*).  
PHILLIPS, C. D., Newport, Mon. (*see page 283*).  
RANDS & JECKELL, Ipswich (*see page 288*).  
SINGLETON, WILLIAM, Lincoln (*see page 257*).

**Measuring Sticks.**

BARRETT, A., & SONS, 157-158, Piccadilly, W. (*see page 148*).  
PRESTON, EDWARD, 8, Snow Hill, Birmingham (*see page 179*).

**Moss Litter.**

MOSS LITTER, CHARCOAL AND MANURE CO., LTD., 70, Billiter Buildings, E.C. (*see page 170*).

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LISTER, R. A., & Co., Dursley (*see page 272H*).

**STABLE REQUISITES—Continued.****Paving Bricks, Wall Tiling, &c.**

ST. PANCRAS IRONWORKS CO., St. Pancras Road, N.W.  
(see page 171).

SOUTH STAFFORDSHIRE BLUE BRICK CO., LTD.,  
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page 176).

STANLEY BROS., Nuneaton (see page 126).

TOWERS & WILLIAMSON, Adamantine Clinker Works,  
Little Bytham, Grantham.

**Saddle Soap.**

BUCKNELL, TURNER & SONS, 31-32, Haymarket, S.W.  
(see page 176).

**Shoeing Iron.**

UNITED HORSE SHOE AND NAIL CO., LTD., Cubitt  
Town, E. (see page 175).

**Soft Soap.**

CHISWICK SOAP CO., Chiswick, W. (see page 297).

**Stable Fittings.**

ASHTON & GREEN IRON CO., Bury Street, St. Mary  
Axe, E.C. (see page 141).

BAYLISS, JONES & BAYLISS, Wolverhampton (see  
page 261).

BOYD, JAMES, & SONS, Macdowall Street, Paisley, N.B.  
CLARK, T. & C., & Co., Wolverhampton.

DINNING & COOKE, Newcastle-on-Tyne.

EMLEY & SONS, LTD., Newcastle-on-Tyne (see page  
125).

MACFARLANE, W., & Co., Saracen Foundry, Glasgow  
(see page 177).

MAIN, A. & J., & Co., 77A, Queen Victoria Street, E.C.  
(see page 263).

MEADOW FOUNDRY CO., Mansfield (see page 300).

MOTLEY & GREEN, St. George's Street, Leeds (see page  
298).

ST. PANCRAS IRONWORKS CO., St. Pancras Road, N.W.  
(see page 171).

SESSIONS, J., & SONS, Gloucester (and Cardiff).

YOUNG & CO., 12, Victoria Street, Westminster, S.W.  
(see page 177).

**Stable Gutters.**

ST. PANCRAS IRONWORKS CO., St. Pancras Road, N.W.  
(see page 171).

**Stabling, Portable.**

BOULTON & PAUL, Norwich (see page 170).

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UNITED HORSE SHOE AND NAIL CO., LTD., Cubitt  
Town, E. (see page 175).

**Tools, Stable.**

DAVIS, A., & Co., 10, West Strand, W.C. (see page 172).

MURTON, H. A., Newcastle-on-Tyne (see page 162).

**Veterinary Colleges.**

ROYAL VETERINARY COLLEGE, Camden Town, London,  
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ROTHERHAM, CHAS. J., 55, South Molton Street, W.

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JONES, Milton House, Worcester Street, Gloucester  
(see page 170).

SINGLETON, WM., Lincoln (see page 257).

**Whips.**

ASHFORD, W. & G., Essex Street, Birmingham (see  
page 177).

**WATER SUPPLY AND POWER.****Abyssinian Tube Wells.**

LE GRAND & SUTCLIFFE, 125, Bunhill Row, E.C.

STALEY, JAMES, Brailes, Shipston-on-Stour (see  
page 121).

**Artesian Bored Wells.**

CADLE, C., 39, Wellington Quay, Dublin (see page 266).

LE GRAND & SUTCLIFFE, 125, Bunhill Row, E.C.

STALEY, JAMES, Brailes, Shipston-on-Stour (see  
page 121).

**Chain Pumps (see Farm Implements).****Deep Well Pumps.**

BAKER, THOMAS, & SONS, Compton, Berkshire.

NORRIS & HENTY, 235, Upper Thames Street, E.C.  
(see page 121).

TASKER, W., & SONS, Andover (see page 215).

TITT, JOHN WALLIS, Warminster (see page 267).

**Hot Air Engines and Pumps.**

NORRIS & HENTY, 235, Upper Thames Street, E.C.  
(see page 121).

**Hydraulic Engineers.**

BAILEY, W. H., & Co., Salford, Manchester.

CADLE, C., Wellington Quay, Dublin (see page 266).

HETT, CHAS. LOUIS, Brigg.

HINDLEY, E. S., 11, Queen Victoria Street, E.C. (see  
page 216).

HUGHES & GOTTO, 8, Highgate Road, N.W. (see  
page 121).

JENNINGS, GEORGE, Lambeth Palace Road, S.E.

MILLAR, JOHN S., & SON, Annan, N.B. (see page 311).

MORRIS, JOHN, & SONS, Cross Lane, Manchester (see  
page 129).

PULSOMETER ENGINEERING CO., LTD., 61 & 63,  
Queen Victoria Street, E.C. (see page 265).

**WATER SUPPLY AND POWER, Hydraulic Engineers—Continued.**

STALEY, JAMES, Brailes, Shipston-on-Stour (*see page 121*).

TASKER, W., & SONS, Andover (*see page 215*).

TITT, JOHN WALLIS, Warminster (*see page 267*).

**Hydraulic Rams.**

HETT, CHAS. LOUIS, Brigg.

HUGHES & GOTTO, 8, Highgate Road, N.W. (*see page 120*).

MILLAR, JOHN S., & SON, Annan, N.B. (*see page 311*).

STALEY, JAMES, Brailes, Shipston-on-Stour (*see page 121*).

**Pipes, Water.**

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CADLE, C., 39, Wellington Quay, Dublin (*see page 266*).

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).

HINDLEY, E. S., 11, Queen Victoria Street, E.C. (*see page 216*).

HUGHES & GOTTO, 8, Highgate Road, N.W. (*see page 120*).

KING, T. C. R., Prince of Wales Road, Norwich.

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TASKER, W., & SONS, Andover (*see page 215*).

TITT, JOHN WALLIS, Warminster (*see page 267*).

WOODS & CO., Stowmarket, Suffolk (*see page 249*).

**Pumps, Centrifugal.**

HETT, CHAS. LOUIS, Brigg.

**Pumps, The "Pulsometer" Steam.**

PULSOMETER ENGINEERING CO., LTD., 61-63, Queen Victoria Street, E.C. (*see page 265*).

**Turbines.**

CADLE, C., 39, Wellington Quay, Dublin (*see page 266*).

HUGHES & GOTTO, 8, Highgate Road, N.W. (*see page 120*).

MILLAR, JOHN S., & SON, Annan, N.B. (*see page 311*).

TASKER, W., & SONS, Andover (*see page 215*).

**Water Softening Apparatus.**

LONDON AND GENERAL WATER PURIFYING CO., LTD., 157, Strand, W.C.

**WATER SUPPLY AND POWER—Continued.****Water-wheels.**

TASKER, W., & SONS, Andover (*see page 215*).

TITT, JOHN WALLIS, Warminster (*see page 267*).

**Wind Engines for Pumping.**

TITT, J. WALLIS, Warminster (*see page 267*).

**Wind-mills.**

CADLE, C., 39, Wellington Quay, Dublin (*see page 266*).

CLOTTEN, F. E., 258, High Holborn, W.C. (*see page 268*).

HUGHES & GOTTO, 8, Highgate Road, N.W. (*see page 120*).

MILLAR, JOHN S., & SON, Annan, N.B. (*see page 311*).

TASKER, W., & SONS, Andover (*see page 215*).

TITT, JOHN WALLIS, Warminster (*see page 267*).

WOODS & CO., Stowmarket, Suffolk.

**YACHTING.****Air Beds.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Boat Builders.**

FAY, J. G., & CO., LTD., Northam, Southampton.

**Caps, Yachting.**

HEATH, ROBERT, 24-25, St. George's Place, S.W. (*see page 160A*).

PREEDY, JOHN KNOWLTON, 12A, Regent Street, S.W. (*see page 155*).

**Kit Bags, Waterproof.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Oil Skins.**

ANDERSON'S, 37, Queen Victoria Street, E.C. (*see page 156*).

**Steam Launch Boilers.**

ABBOTT & CO., Newark (*see page 217*).

WESTON & CO., Dover (*see page 165*).

**Steam Launches.**

FAY, J. G., & CO., LTD., Northam, Southampton.

WESTON & CO., Dover (*see page 165*).

**Yacht Builders.**

FAY, J. G., & CO., LTD., Northam, Southampton.

SIMPSON, STRICKLAND & CO., Dartmouth, S. Devon.

THORNEYCROFT, JOHN I., & CO., Chiswick.

WESTON & CO., Dover (*see page 165*).

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Laundry and Kitchen Utensils.

As the contents of this Section depends entirely upon Manufacturers subscribing for space, it is necessarily not so complete as we hope to make it when the Book becomes thoroughly established. The Directory contains the names and addresses of many firms who supply requisites under this Section, but whose goods are not fully described.

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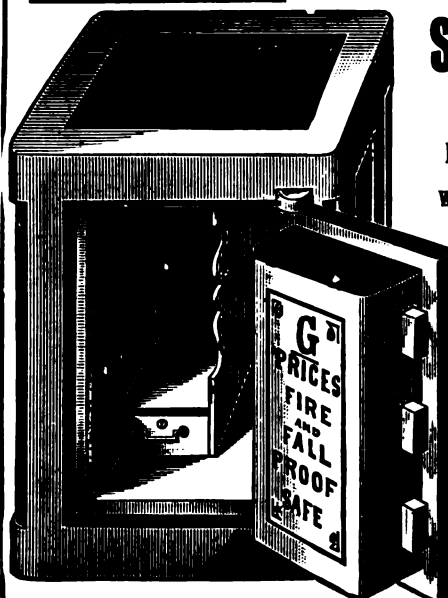
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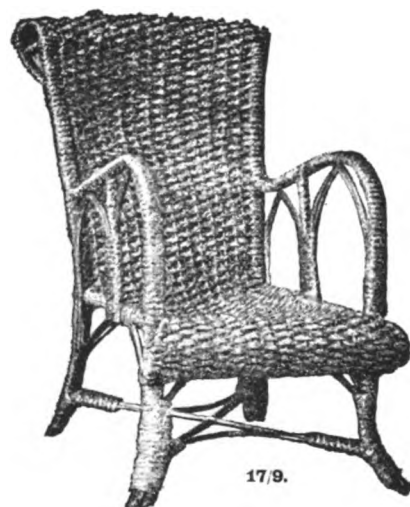
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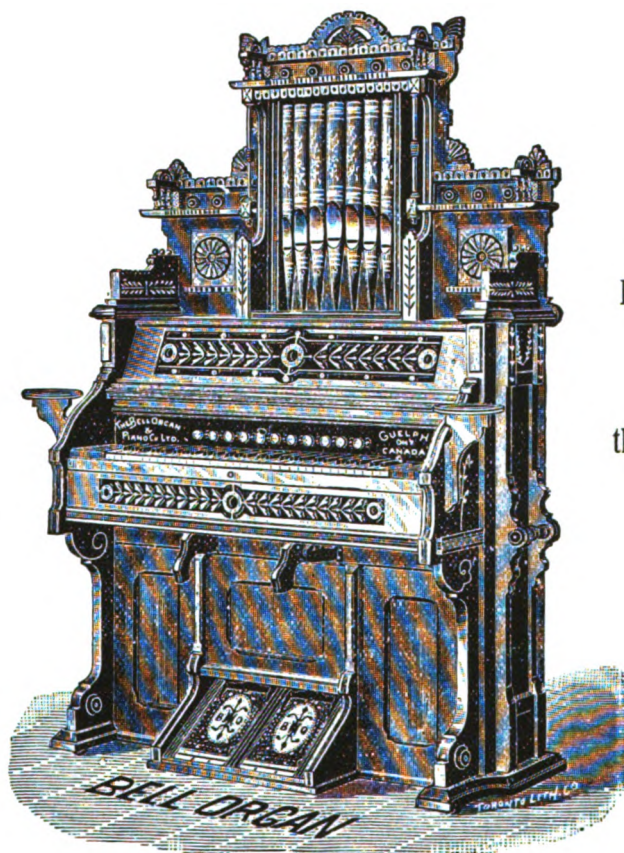
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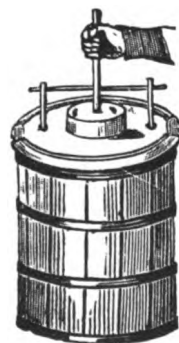
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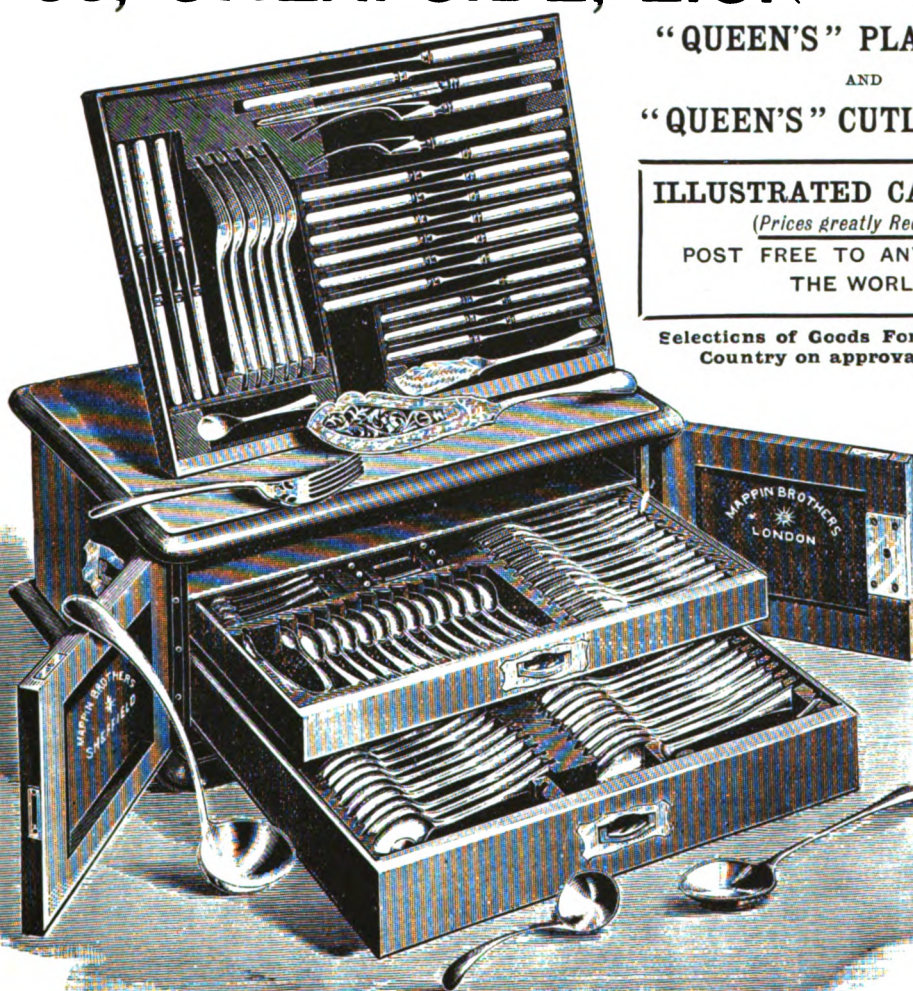
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LONDON, 1851.

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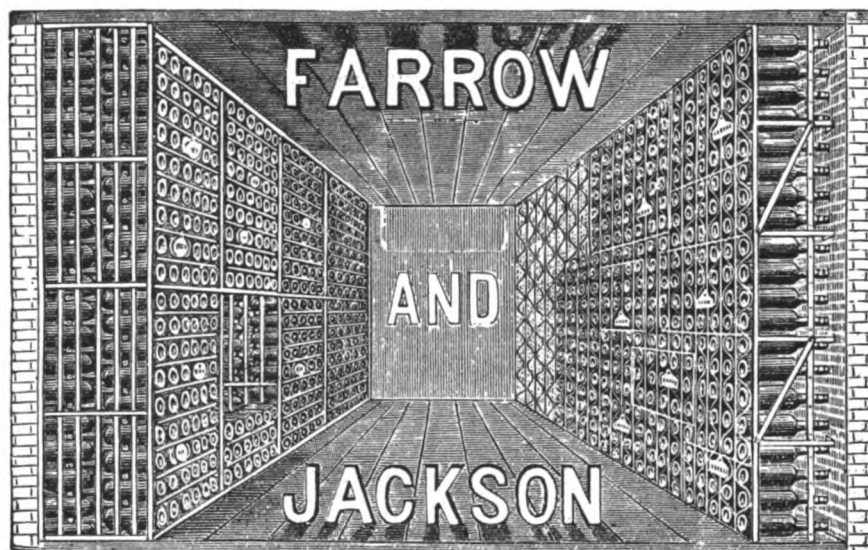
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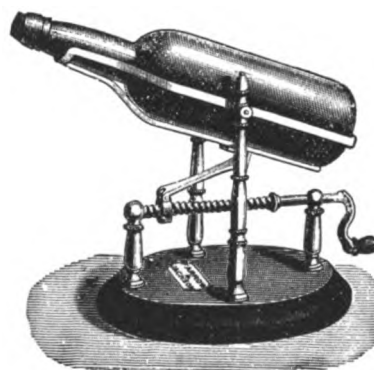


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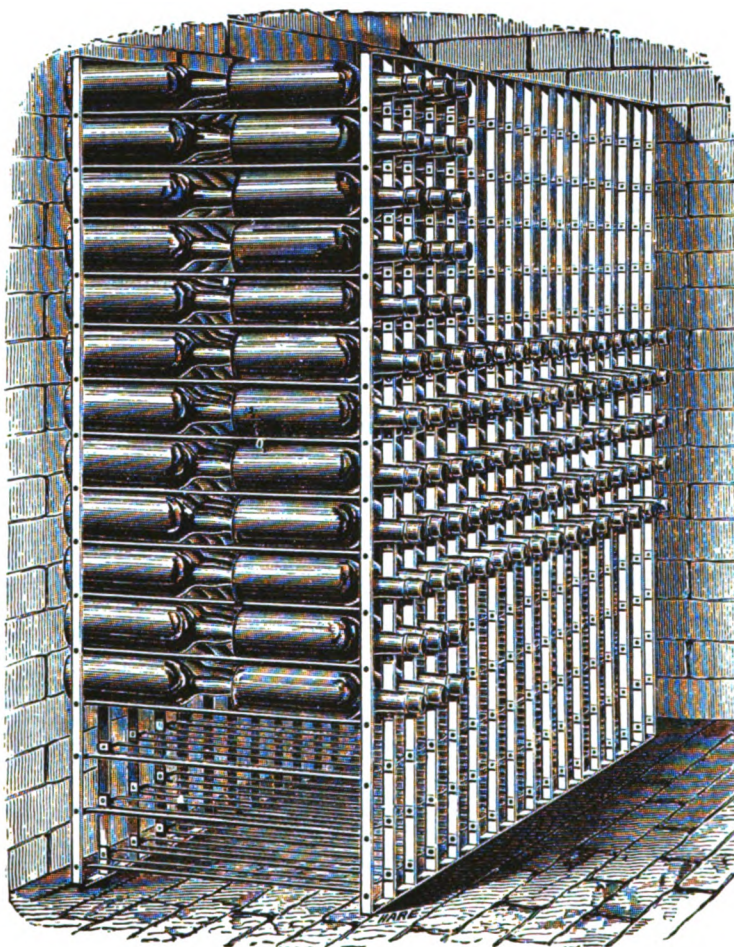
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## BURROW'S "SLIDER" WINE BINS.

These Bins are made ANY SIZE, and when required are fitted with Lattice Doors to lock. They are particularly adapted for Private Cellars, as by their use breakage is reduced to a minimum.

The Bottles are SLID into their place, being supported their whole length on Horizontal Parallel Bars.



We shall be glad to suggest arrangements for the fitting up of Cellars with this or any other description of Bin on receipt of particulars.

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These Bins are made for one, two (as in above illustration), or three bottles deep, and until the invention of the "SLIDER" no satisfactory Iron Bin had been made for BOTTLES IN DOUBLE ROWS (two deep from back to front). The French and other Bins hitherto in use, are so unsafe and inconvenient that no one who has once used them would be likely to try them again. The "Sliders," on the contrary, are perfectly safe, and so extremely convenient that they are universally liked.

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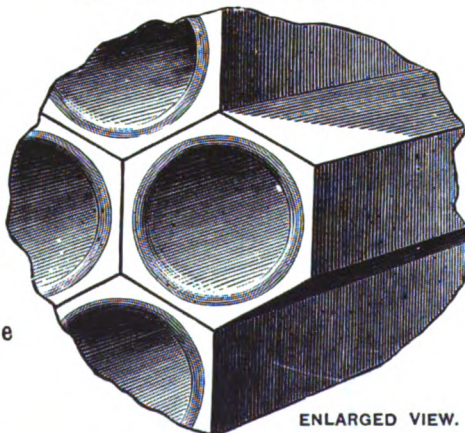
# King & Smith's Patent "Honeycomb Wine Bin.



VIEW OF CELLAR FITTED UP

Five Gold and Silver Medals  
have been awarded  
to KING & SMITH for his  
system of Wine Storage.

Testimonials from all parts  
approving this  
system of storing wine in the  
"Honeycomb" Bin.



ENLARGED VIEW.

*Patentees:—*

**KING & SMITH,**  
Stowe Works,  
**WEEDON.**

**Sole Manufacturer:—GEO. KING, Stowe Works, WEEDON.**

# KING & SMITH'S PATENT "HONEYCOMB" WINE BIN.

The construction of this Wine Bin is altogether a novelty. Each receptacle for a bottle is a separate Tube, made of terra cotta, hexagon, or honeycomb, shape outside, and circular within—just large enough to take a bottle easily.

In new buildings they can be built in the walls, thus making the cellar one foot larger each way. Crushing strains can be had made by Messrs. David Kirkaldi & Son, the average test slightly cracked at over 16 tons per square foot, a greater strain than London bricks will average.

As will be seen by the illustrations on the other side, the Tubes are stacked in honeycomb fashion in any space desired to be fitted up as a Wine Bin, and require no kind of fixing, as they fit into each other very firm, and from 10 to 12 Tubes go to 1 square foot of wall surface.

The ADVANTAGES claimed for this system are numerous and obvious, and amongst them may be named—

- 1.—Simplicity, cheapness, firmness, durability and good appearance.
- 2.—The great number of bottles that can be stored in a given space, and their adaptability to spaces of irregular form and odd corners.
- 3.—Each bottle having a separate chamber is protected from currents of air and sudden changes of temperature, and the breakage of one bottle cannot affect any other.
- 4.—The Tubes (little larger than a bottle) can be handed down awkward cellar stairs down which framed racks would not pass.
- 5.—Being porous, the Tubes will absorb water sprinkled over them, and the evaporation that ensues will materially reduce the temperature, so that where wines and aerated waters are required to be kept cool, the patent "Honeycomb" Tubes become a simple and ready form of Refrigerator when so treated.
- 6.—Weeping bottles can be detected at a glance, each Tube being longer than the bottle.

Unless otherwise ordered, the Tubes are made to suit ordinary wine bottles, and will of course do for smaller sizes, but they can be supplied to suit bottles of any size.

At the Brewers' Exhibition, 1887, the Jury (composed of eminent Brewers and Wine Merchants, who did not award prizes, but only reported on new inventions) reported—"A very excellent arrangement of Bottle Rack."

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Messrs. KING & SMITH, Stowe Works, Weedon.

GLASGOW, 29th May, 1888.

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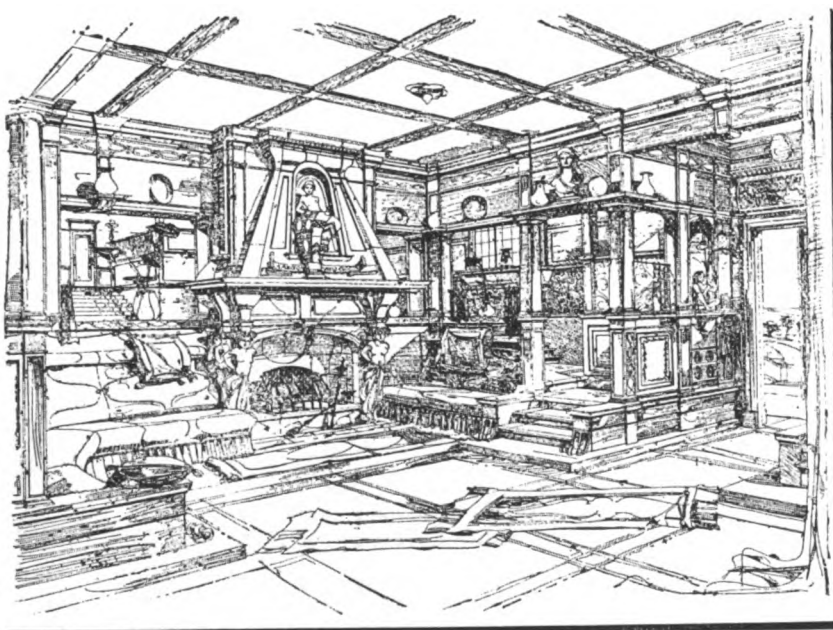
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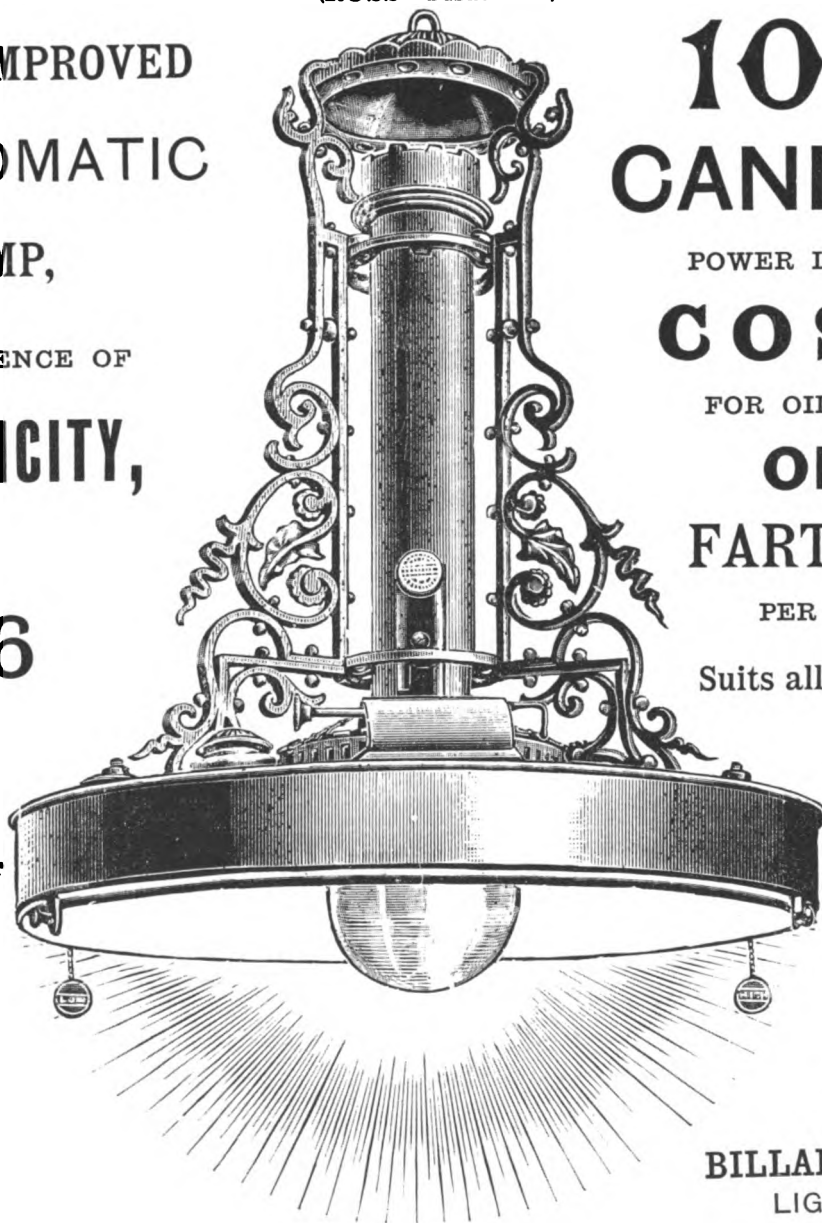


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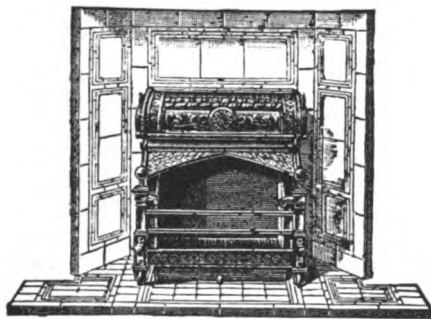
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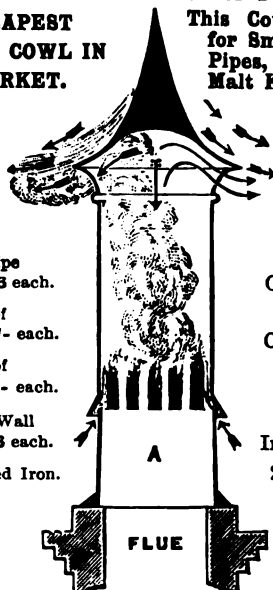
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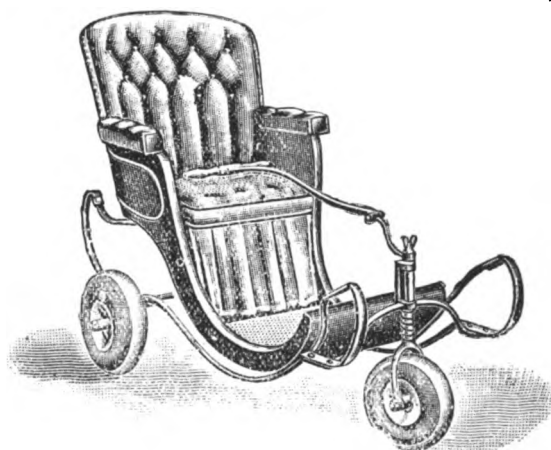
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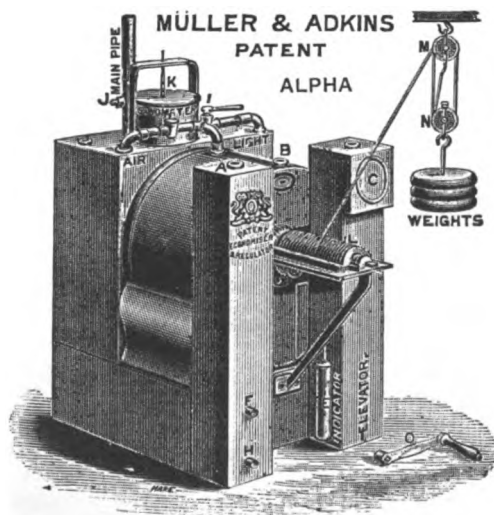
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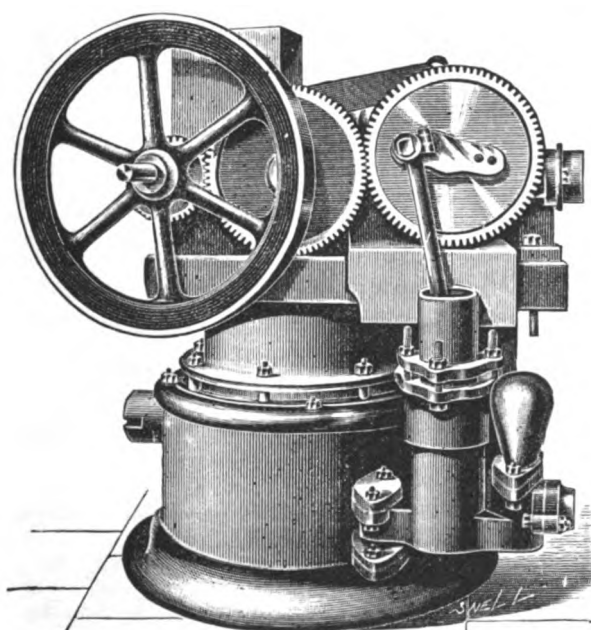
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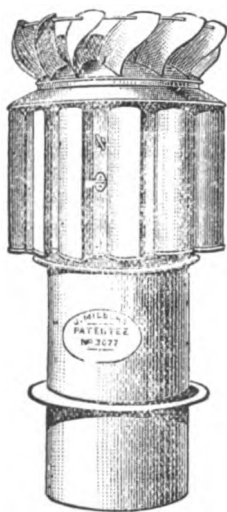
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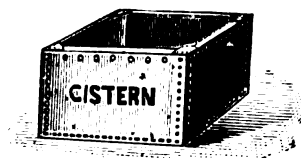
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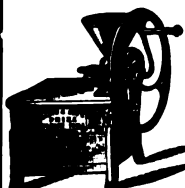
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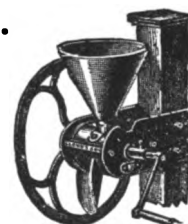
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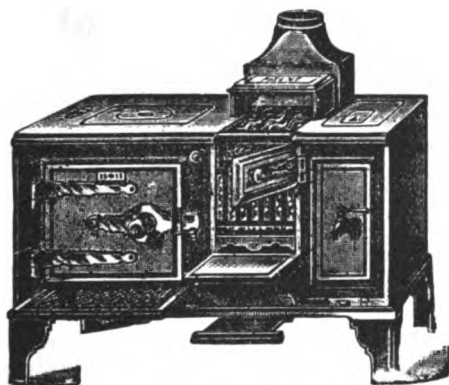
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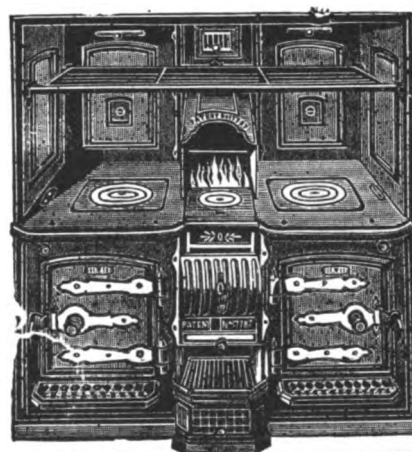
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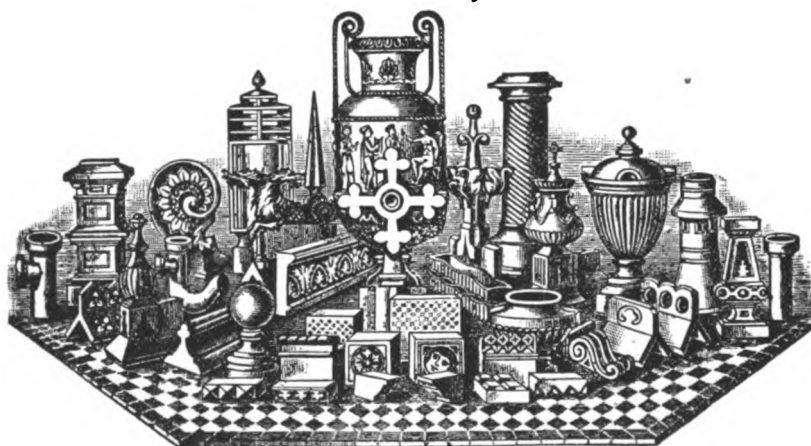
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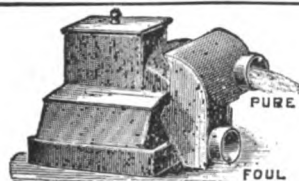
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**Works: WEST THURROCK and MAIDSTONE.**



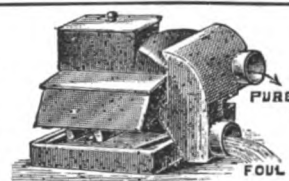
RUNNING TO STORAGE

PURE RAIN-WATER.

## The Rain-Water Separator

Prevents the first portion of the rainfall passing into the storing tank. It catches and stores the water when the roof has been washed by the rain. Price from £3 to £6.

**C. G. ROBERTS, HASLEMERE, SURREY.**



RUNNING TO WASTE

## WINDOW BLINDS

Of every description for Mansion, Villa, and Cottage, Outside Sun Blinds, Balcony Awnings, Conservatory and Greenhouse Shades. Illustrated Price List on application.

Estimates free.

## JAMES WILLIAMS,

Seymour Works,

**JUBILEE PLACE, CHELSEA, S.W.**

23 Years Contractor to Her Majesty's Hon. Office of Works, Museums, etc.

N.B.—Not connected with others of this name.

## THE ISLE OF AXHOLME ARTESIAN TUBE WELL COMPANY, CROWLE, via DONCASTER.

Our Wells are in use all over England, and many parts of America.

FOR LARGE SUPPLIES OF WATER FROM COUPLED TUBE WELLS, ESTIMATES WILL BE SENT ON APPLICATION.

EVERY DESCRIPTION OF HAND AND POWER PUMPS SUPPLIED.

# HIGH-CLASS Paper Hangings.

**SHAW & Co.,**  
164, Holloway Road,  
**LONDON, N.**

This Season's Pattern Books  
contain

**SEVERAL HUNDREDS**  
of the most  
**CHOICE DESIGNS**  
the trade can produce.

**A LIBERAL CASH DISCOUNT**  
allowed on all orders above £5,  
and

**CARRIAGE PAID**  
to any Railway Station in the  
Kingdom.

**SHAW & Co.**  
will have much pleasure in  
**SENDING PATTERNS**  
upon application.

**ESTABLISHED 1846.**

**H. J. THOMPSON,**  
(Late H. E. THOMPSON & SON),  
Window Blind & Sun Shade Manufacturer,  
HIGH HOUSE, MONTEPELIER ROW,  
**BLACKHEATH, S.E.**

PATTERNS & ESTIMATES FREE.  
DISTANCE NO OBJECT.

## LIGHTNING CONDUCTORS

Erected — Tested — Repaired.

**CHURCH SPIRES, &c., REPAIRED**  
By Steeplejacks, without Scaffolding.

**HENRY WHINCOP,**  
BEARWOOD ROAD, BIRMINGHAM.

## BROSELEY ROOFING TILES,

As supplied to H.R.H. The Prince of Wales.

Manufactured by

**GEO. LEGGE & SON,**  
Woodlands, and Madeley Wood Broseley Tile Works.

OFFICES:

**MADELEY, SALOP.**

Telegrams—"LEGGE, IRONBRIDGE."

## K'S Patent Automatic LOCKS

For Every Purpose.

Including HOUSE LOCKS, PADLOCKS, ASYLUM  
LOCKS, STABLE DOOR LOCKS and FITTINGS,  
LOOSE BOX FASTENINGS (as fitted throughout  
MARLBORO' HOUSE STABLES), BROUGHAM LOCKS  
(as fitted on H.R.H. PRINCE OF WALES' BROUGHAM),  
RAILWAY LOCKS, SLIDING DOOR LOCKS, &c., &c.

77a, Great Queen Street, W.C.

(During re-building of 93, High Holborn), and

**KAYE & SONS, Ltd., LEEDS.**

ESTABLISHED  
35 YEARS.

**98**  
First Prize Honors.

# W. B. DICK,

TELEGRAMS:—  
"CLANSMAN,"  
MANCHESTER.

**FIRE EXTINGUISHING APPLIANCES,**  
**16, MARKET PLACE, MANCHESTER.**



**175,000 Dick's Extincteurs the "FIRE QUEEN"  
HAVE BEEN SOLD.**

Sole and Original Inventor, and only Maker, of Dick's  
Extincteurs "FIRE QUEEN," no other make of Charges  
should be used for these Machines.

Over **17,000 FIRES** have been PUT OUT with DICK'S "FIRE QUEENS."

Mr. JAMES SINCLAIR, who  
was my Agent for many years,  
no longer represents me.

ALSO MAKER OF  
**All kinds of Fire Appliances**  
FOR THE  
**Extinction of Fires.**



No. 1 Little "Fire Queen" 15/- each, including one charge.  
" 2 " " 21/- " " "  
" 3 " " 35/- " " "

No. 4, The "Fire Queen" 25 each, including one charge.  
" 5, " " 26 " " "  
" 6, " " 27 " " "

Subject to 10 per cent. in Cash, with Order.

Insurance Companies allow 5 per cent. from premiums for DICK'S Extincteurs.

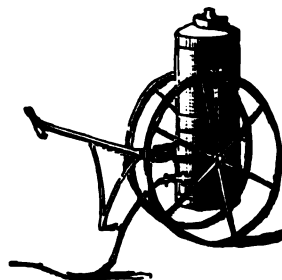


**HOSE PIPING.**  
**SCREW COUPLINGS.**  
**INSTANTANEOUS do.**  
**STAND PIPES.**  
**BRANCH do.**  
**HYDRANTS.**

**FIRE ESCAPES.**  
**Do. ENGINES.**  
**CORRIDOR do.**  
**SUCTION HOSE.**  
**LEATHER do.**  
**LANDING VALVES.**

Lion Hand Fire Extinguishers .. .. 48/- per Doz.  
" Grenades .. .. 30/-  
20 per cent. cheaper than any other makers and all the  
Latest Styles and Improvements known.

**W. B. DICK'S signature is stamped on every  
genuine machine; please see to this or inferior  
makes will be supplied you.**



I have recently supplied the Queen and Royal Families with my Extincteurs. Any firm infringing my  
patents will be proceeded against and damages claimed for goods supplied.

**EXPRESS CHEMICAL EXTINGTEUR, or Country Fire Engine.** Most invaluable for the Country,  
Villages, Mansions, Workhouses, &c. It only requires one man to use it.

*Write for Catalogue with all the latest Fire Appliances and Improvements.*

# How to Prevent Big Fires.

Modern Fire Fighting demands Appliances quicker in action  
and more simple to manipulate, than those hitherto in use.

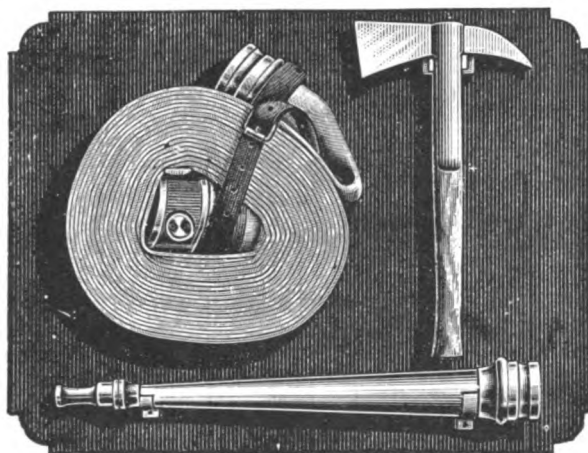
Everybody must admit that the first few minutes at a fire  
is of vital importance.

## Morris's Patent Instantaneous Fire Appliances

Save these precious minutes.

BY THEIR USE UNTRAINED PERSONS ABOUT THE ESTABLISHMENTS OF  
COUNTRY GENTLEMEN CAN GET FIRE SERVICE FITTINGS EFFECTUALLY  
INTO ACTION INSTANTLY ON THE OUTBREAK OF FIRE, AND IN A FRACTION  
OF THE TIME IT TAKES EVEN SKILLED FIREMEN WITH ANY OTHER  
SYSTEM YET INTRODUCED.

No Mansion is  
efficiently equipped  
without  
Morris's Patent  
Fire  
Appliances.



Saves both time  
and labour,  
and increases the  
efficiency of  
trained  
Fire Brigades.

Existing Fire Service fittings can be altered to the Morris System, at a small cost.

Send for Illustrated Catalogue and book of Testimonials.

**MORRIS'S PATENT SYSTEM** prevents confusion when getting fire appliances to work; it does away with the use of wrenches and reels, while leaking joints are a thing of the past. In public institutions where Morris's System is adopted, nurses can get the fire apparatus to work with the ease and speed of trained firemen, so simple are they to use.

**JOHN MORRIS & SONS**, Salford Fire Engine Works, **MANCHESTER.**

# IMPORTANT.

Since it is found advantageous for expert Fire Brigades like those of Manchester, Liverpool, Birmingham, Sheffield, Dublin, Cardiff, Swansea, Newcastle, Hull, &c., to go to the expense of having all their appliances altered to MORRIS'S Instantaneous system, it must be far more so for Country Establishments which have not trained firemen always on the spot.

## Reasons why Country Mansions should use Morris's Patent Fire Appliances.



**BECAUSE** they require no previous knowledge to use.

**BECAUSE** they are instantaneously brought into use in case of emergency.

**BECAUSE** the hose pipes can be connected together as easily and as quickly in the dark as in daylight.

**BECAUSE** there are no threads to get crossed or injured; they require no screwing or turning, and reels and wrenches are done away with.

Do not let old-fashioned prejudice prevent you adopting the MORRIS SYSTEM OF FIRE EXTINGUISHING APPLIANCES at your Establishment.

Illustration shows a fireman laying down hose-piping on the Morris system as fast as he can run.

### One from Book of 1,000 Testimonials.

Messrs. JOHN MORRIS & SONS.

CITY SURVEYOR'S OFFICE, CANTERBURY, *February 1st, 1892.*

DEAR SIRS,—I have pleasure in giving my testimony to the very great superiority of Morris's Patent Instantaneous Self-locking Hose Couplings. In a long experience of 25 years working with Fire Brigades, and having visited many of the Brigades in America and Canada, I have no hesitation in saying **this Coupling stands far above any other in use**, and that here in England it is only our old-fashioned conservative prejudice against anything different that prevents its being introduced into and used by every Brigade in the Kingdom. Everyone must admit the first few minutes at a fire is of vital importance, and with the Instantaneous Coupling these precious minutes are saved, immediately the water is on, no time is lost in putting out a fire.

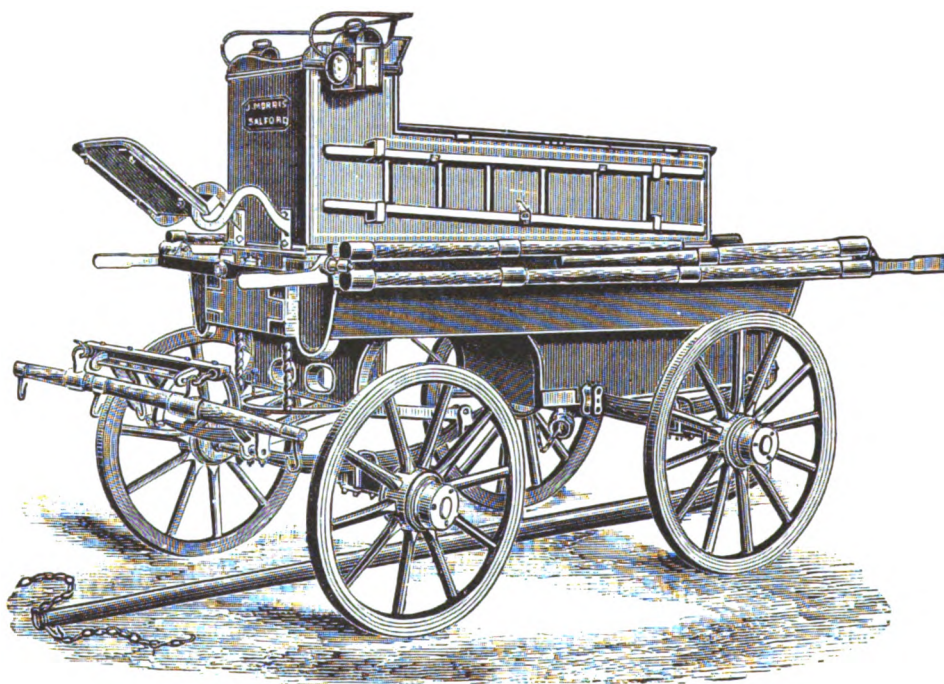
I am, dear Sirs, yours faithfully,

FRANK BAKER, C.E.

# REMEMBER

the rapidity with which a Fire can be attacked is of the utmost importance, as the first few minutes of a Fire generally decide the fate of the property in danger. With Morris's Patent Appliances these precious minutes are saved.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



## MORRIS'S "GOLD MEDAL" MANUAL FIRE ENGINES

*Protect Towns, Villages, Estates and Property in every Country in the World.*

ALL KINDS AND SIZES SUITABLE FOR EVERY PURPOSE.  
**Simple, Powerful and Cheap.**

Prices range from £20 to £120,  
 And are made for 4, 6, 8, 12, 16, 22 and 26 men to pump respectively.

WE BUILD THE LARGEST ASSORTMENT OF FIRE ENGINES IN THE TRADE.

The workmanship of these Engines is of the highest order, and all parts designed to secure strength with minimum weight. Built of the simplest possible construction, so as to be available under any circumstances, and to discharge a maximum quantity of water per minute with a comparatively small number of pumpers.

The Engines are arranged to draw water through Suction Pipes placed either in a River or Reservoir, or from their own Cisterns filled with water by buckets or other means when there is a difficulty in bringing the Engine close enough to the water supply to use the Suction Hose.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

# PORTABLE INDOOR FIRE APPLIANCES.

FOR BUILDINGS WHERE HIGH-PRESSURE WATERMAINS ARE NOT FITTED, IT IS ESSENTIAL THAT SOME SORT OF PORTABLE FIRE EXTINGUISHER SHOULD BE PROVIDED TO SUBDUCE A SUDDEN OUTBURST OF FIRE, or by the time the nearest Fire Brigade can be brought, the Fire may have made such headway as to be beyond control, and the Building be lost for the want of some light, handy apparatus that can be instantly applied.



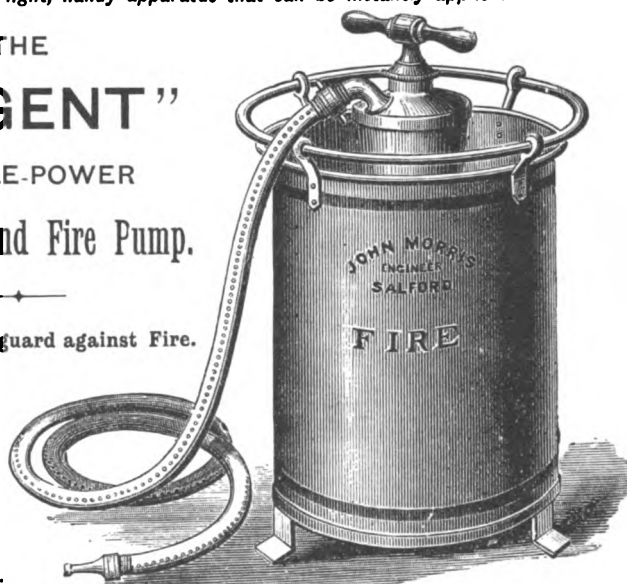
GOVERNMENT PATTERN.

## THE "REGENT" DOUBLE-POWER Portable Hand Fire Pump.

A complete safeguard against Fire.

Always ready  
for action.

Nothing but  
Plain Water used.



GENERAL PATTERN.

THE DOUBLE-POWER HAND PUMP is specially designed for the suppression of Fires when discovered early, and when damage by water can be avoided. The complete apparatus, when empty, weighs 30 lbs., and can be conveniently carried about. The Pump is fixed in a pail holding 9 gallons of water, which is replenished by means of buckets as fast as it is used. One man can use it with excellent results, but it requires two men to develop its full power, namely, one to work the Pump, and the other to direct the Nozzle, when it is capable of forcing through a long line of hose and projecting a most powerful and continuous jet of water a distance of over 60 ft., thus enabling a stream of water to be directed wherever a fire may be burning without exposing the operator to any personal danger or inconvenience.

### PRICES.

	£	s.	d.
<b>GENERAL PATTERN</b> —(recommended for Mansions and all places where a superior finished article is an essential requirement) fixed in a specially designed pail, with a polished brass rail round the top to enable two persons to carry it when full of water, and is handsomely painted vermilion, or any other colour to order; lined and lettered FIRE in gold, and tastefully finished, thus combining utility and elegance; complete with 10 ft. hose, screws, and nozzle .. .. .	5	5	0
<b>GOVERNMENT PATTERN</b> —(recommended for Workshops, Farms and Out-buildings, Stables, &c.) fixed in pail with two handles for carrying, painted vermilion and lettered FIRE; complete with 10 ft. of hose, screws and nozzle .. .. .	3	15	0

**Spreading Nozzle, 5/- extra. Extra Hose, fitted with screws, 10 ft., 10/-; Ditto, 20 ft. length, 17/6.**

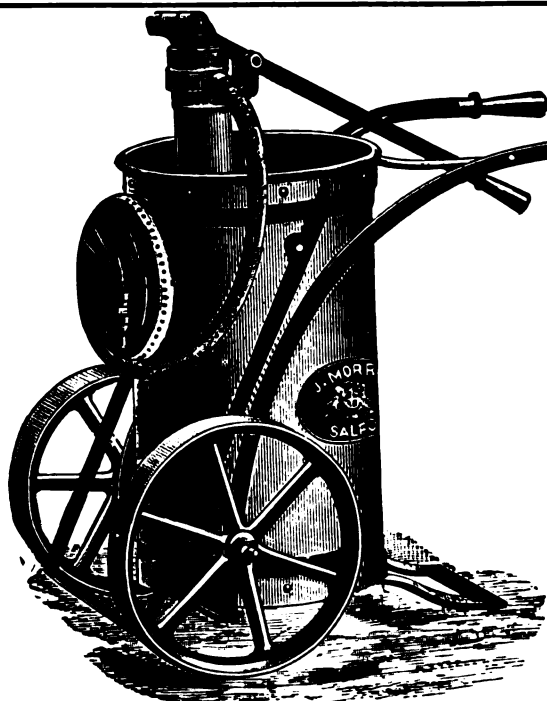
In case of Fire in Workshops abounding in Wood and Shavings, and in Stables filled with Hay and Straw, the Spreading Nozzle may be most advantageously used, as it scatters the water in the form of a heavy shower, enabling a very small quantity of water to become really available for extinguishing a very large burning surface, while the damage done by water is the smallest possible.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



# CORRIDOR FIRE ENGINE

*(It is also an excellent Garden Engine.)*



The special feature of this Engine is the large quantity of water the cistern will hold, and the ease with which it can be wheeled about when filled with water. This makes it a most desirable little Fire Engine for buildings where floors are of large area, as it contains sufficient water to supply the Pump several minutes. It is also fitted in the front with folding handles, by means of which the Engine can be carried up and down stairs. The pump and valves are made entirely of gun-metal, with 3-inch brass cylinder and large polished copper air-vessel, and therefore will not corrode like other makers' Engines of this design.

The Engine is Handsomely finished in vermillion, and occupies a space of 3 feet by 2 feet. It will force a jet of water 50 feet. The hose and nozzle should always be kept connected ready for immediate use.

PRICE of Engine, including nozzle and hose coupling .. .. .	<b>£8 10s. Od. each.</b>
If with patent noiseless elastic india-rubber tyres, on wheels	<b>15s. Od. extra.</b>
Spreading Nozzle .. .. .	<b>5s. Od. "</b>
Hose Piping, per foot .. .. .	<b>3d. "</b>

Ten or twenty feet is recommended with each Engine.

## LONDON BRIGADE PORTABLE HAND PUMP.

COMPACT, CHEAP, POWERFUL, and EFFICIENT.

This is the only description of Hand Pump used by the London Fire Brigade.

The apparatus complete when empty weighs only 20 pounds.

The Pump is fixed in a pail holding 6 gallons of water, and is always ready for use.



It can be used by a boy or female servant, the handle being worked by one hand, whilst the nozzle is directed by the other, and will project a powerful stream of water a distance of 30 to 40 feet, the water in the pail being replenished by means of buckets.

### NO PRIVATE RESIDENCE, BOARDING SCHOOL or HOTEL

Should be without this approved and inexpensive safe-guard against the spread of Fire.

This Pump occupies a very small space, and can be kept in any convenient situation ready for immediate use. It is easily managed by any domestic, and is not liable to get out of order.

PRICE.—Brigade Hand Pump, fixed in handsomely painted Pail, with Cover and polished Brass

Handle, Hose fitted to screw and Jet complete .. .. . **£3 3s. Od.**

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

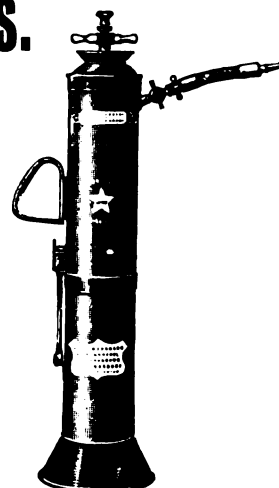
# CHEMICAL FIRE EXTINGUEURS.



Pattern C.



Pattern B.



Pattern A.

**THE ONLY RELIABLE MEANS OF EXTINGUISHING THE FLAMES OF BURNING PARAFFIN OR ANY OTHER COMBUSTIBLE OIL OR SPIRIT.**

These Extingueurs are fitted with all the latest improvements; they have a tap on the delivery pipe for controlling the flow of the contents, thus enabling the user to check them and move to a more effective place for playing on the fire without wasting the fluid when moving from place to place.

The Extingueurs are made in three designs. Pattern C, the largest type, is fitted with a yoke or shoulder straps, for carrying on the back of the user. Pattern B, medium size, shows the Extingueurs arranged for carrying in the hand. Pattern A is the smallest type, and may be hung or placed standing in different parts of a residence ready for immediate use.

## PRICES.

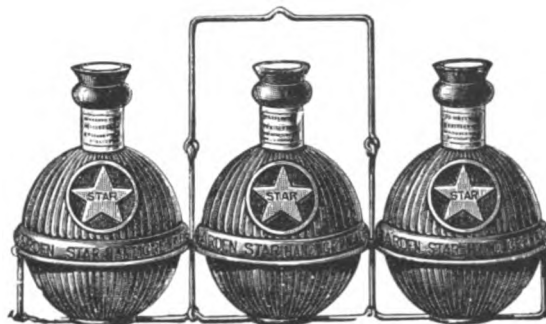
Pattern	A	A	A	B	B	C	C	C	
Size	1	2	3	4A	4B	4	5	6	
Weight when Charged	19 lbs.	24 lbs.	30 lbs.	31 lbs.	53 lbs.	81 lbs.	104 lbs.	121 lbs.	LEATHER YOKES
Capacity	8 pts.	12 pts.	16 pts.	14 pts.	26 pts.	54 galls.	8 galls.	10 galls.	for carrying,
PRICE	26/6	50/-	67/6	80/-	80/-	105/-	120/-	140/-	Nos. 4, 5, and 6,
Additional Chemical Charges	1/3	2/-	2/9	2/-	3/-	4/-	5/-	6/6	6/- each, extra.

## LEWIS SPRINKLER FIRE EXTINGUISHER

Consists of metallic tube 18 in. long by 2 in. diam. filled with a chemical fluid; is kept suspended from a hook. To use, seize by lower end, giving sudden jerk, by which stopper is withdrawn. Then sprinkle liquid on burning material until extinguished.

### PRICE.

30/- for Case containing Six.



## THE STAR GRENADE FIRE EXTINGUISHER.

**Always Ready for instant Use.**

**Safe, being Harmless to Health.**

Being of thinnest glass will break as easily as an egg, and can therefore be used by a child.

TO USE.—Throw the Grenades into the midst of the fire in quick succession until it is extinguished, using considerable force to scatter the liquid.

### PRICES.

Grenades, 40/- per dozen.

Wire Baskets to hold 3 Grenades, 13 each.  
Do. 2 do. 9d. do.



## COMBINATION GRENADE SPRINKLER.

Designed for more readily applying the liquid by sprinkling it on burning drapery. It is kept suspended and used in same manner as the LEWIS Sprinkler, but being glass it can also be used by being thrown into a fire same as ordinary Grenade.

### PRICE.

25/- for Case containing Six.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

# How to Save Life at Fires.

Ladders of all kinds, Belts and Ropes, &c., are much too slow a process of rescuing a large number of people, besides being even dangerous to a panic-stricken crowd, because with ladders excited people are liable to become dizzy and fall.

To overcome these defects we have recently introduced a novel kind of escape made in the form of a long canvas bag, down which persons can descend with great rapidity, safety, and even comfort. The "Toboggan" Fire Escape is the name given to this invention, and it is pronounced by all who have seen it to be beyond a doubt the most simple and efficient escape yet brought out.

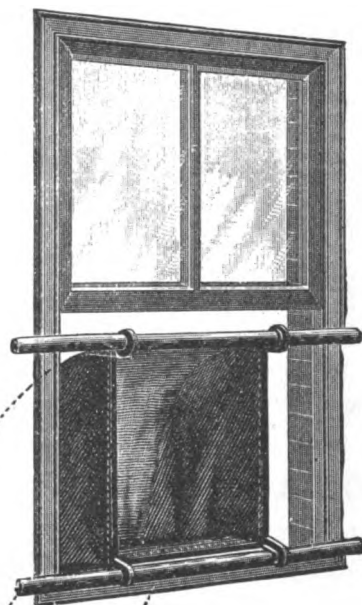
At a recent trial of some of these escapes which we supplied to the St. Joseph's Industrial Schools, Manchester, thirty boys descended from a third-storey window within the space of one minute. It does not matter which way the person descending goes down, either head or feet foremost; there is no fear of them being hurt, even though they may be insensible or invalid. Indeed, in some establishments where this escape is adopted the employes practise it as a pleasurable exercise and amusement—good training in the event of fire.



PRACTICE WITH "TOBOGGAN" FIRE ESCAPE.

The "Toboggan" Fire Escape is made of the very finest quality Royal Navy Canvas; the upper end of the bag-formed chute is fitted with a light steel frame of such a form as to properly extend the chute, and afford free access to the mouth of it from inside the room (avoiding the danger with the common canvas chute escapes having frames which necessitate getting over window sill before entering, a most dangerous practise).

The "Toboggan" is made either to be a fixture to a particular window, or portable for use from any window. Sketch No. 3 shows the portable pattern, which is fitted with two light strong bars of sufficient length to extend across the opening of the windows. To use the "Toboggan" simply place it on window bottom and allow the canvas chute to drop in the street, when the escape is at once adjusted ready for work.



Sketch No. 3. PORTABLE PATTERN, CAN BE USED FROM ANY WINDOW.

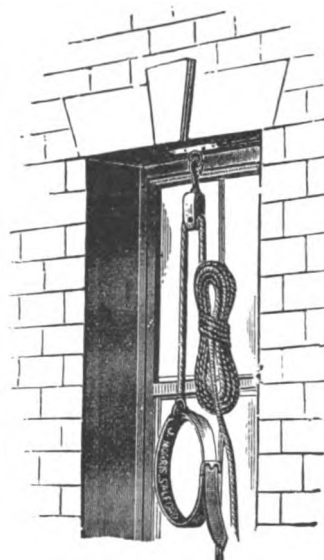
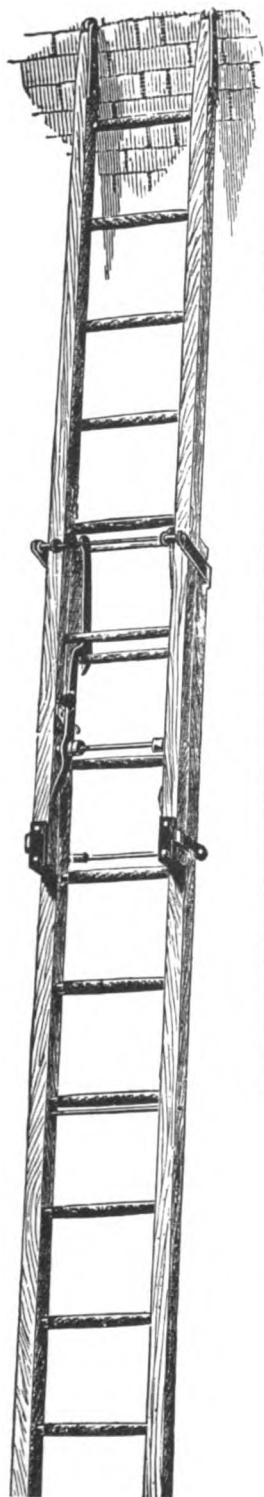
## PRICE:

Escape to suit any window not exceeding 20 feet high ... £5 0 0

For every additional foot in height of window sill, 4/-.

(For example, Escape to suit window 25 feet high would be £6 5/-).

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**



### BELT & ROPE FIRE ESCAPE.

The Life Belt is fitted at one end of a specially plaited rope passing over a pulley. When required for use, the apparatus is hooked to an eye screwed in the upper part of window and the belt is firmly strapped to the person desiring descent.

The descent may be controlled by people in the street, or by some person inside the endangered room, or even by the individual himself.

The rope requires to be double the length of the distance from top of window to the ground.

PRICE	50 feet	..	40/-	each.
	75 "	..	45/-	"
	100 "	..	50/-	"



### ROPE LADDER FIRE ESCAPE.

Consists of a strong rope ladder with oak treads, attached at top to stout iron bar.

The ladder is thrown out, and the long bar placed across the inside of window, projecting about one foot on either side; a most simple and effectual means of escape is at once established. A child can fix it to any window, and it is easily carried from room to room.

PRICE	20 feet	..	25/-	each.
	30 "	..	35/-	"
	40 "	..	45/-	"
	50 "	..	55/-	"

### MORRIS'S PORTABLE EXTENSION LADDERS.

**The Strongest, Lightest, and Simplest to use.**

It is raised in the following manner: the person using it walks up the lower ladder, at the same time lifting with both hands the bottom stave of the upper one, allowing the gripping hooks to fall on each stave at every step. To lower: lift the upper ladder sufficient to disengage the gripping hooks off staves, thus sustaining the weight of the upper ladder by one hand, allowing the other hand to hold the hooks out of action.

This ladder forms a most handy fire escape, as it can be carried through buildings, &c., raised and extended to reach varying heights by one man with the greatest ease, and without any previous experience.

The ladders can be readily detached for use separately.

CAN BE STOWED AWAY OUT OF REACH OF BURGLARS.

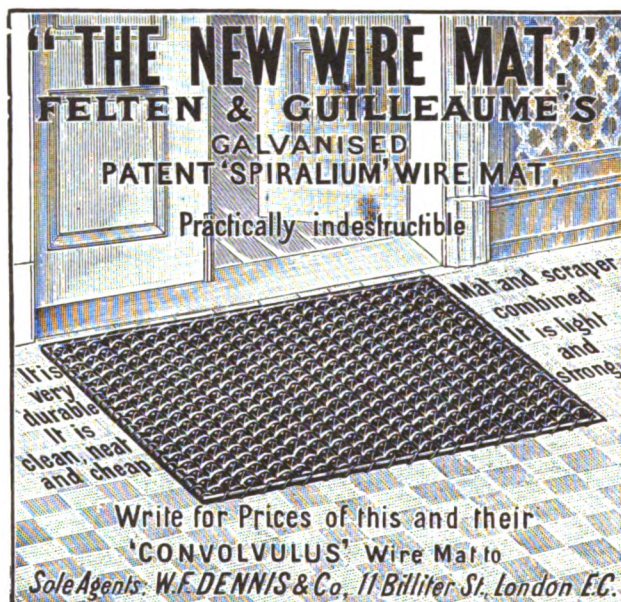
PRICE	..	64/-	67/-	70/-	73/-	85/-	88/-, &c.
TO EXTEND TO	..	18ft.	21ft.	24ft.	27ft.	30ft.	33ft., &c.

**JOHN MORRIS & SONS, Salford Fire Engine Works, MANCHESTER.**

**FELTEN & GUILLEAUME, Mülheim-on-Rhine.**

**Manufacturers of**  
**FENCING WIRE**  
**AND POSTS,**  
**BARB WIRE,**  
**PATENT**  
**"DITRIGON"**  
**BARB WIRE.**

**Hexagonal and Interlinked**  
**WIRE NETTING,**  
**SPRINGS, ETC.**



**Manufacturers of**  
**WIRE ROPES**  
**FOR**  
**MINING,**  
**SHIPS' RIGGING,**  
**HAWSERS,**  
**TRAMWAYS, ETC.**

**ELECTRICAL**  
**LEADS & CABLES**  
**FOR**  
**TELEGRAPHY,**  
**TELEPHONY,**  
**ELECTRIC LIGHT.**

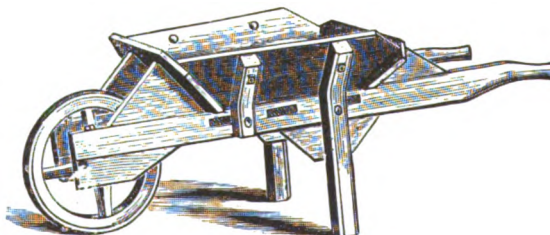
**London Stores:**  
**MILLWALL DOCKS.**

**PATENT "DITRIGON" 2-PLY WIRE STRAND,**

**The only proper substitute for Barb on public ways.**

**AMERICAN**

**Strong,**



**BARRDWS,**

**First-class quality.**

			On Rails in Liverpool.			On Rails in Leicester.
500	...	...	10/-	...	...	10/3
200	...	...	10/9	...	...	11/-
60	...	...	11/3	...	...	11/6
For less quantities			11/9	...	...	12/-

Knocked down with  
all necessary bolts,  
nuts, &c.

N.B.—If put together  
6d. each extra  
charged.

**Patent Boarded  
Roofing.**



(Plain or Creosoted.)

**Light, Cheap, Dry,**  
**Healthy.**  
**Perfect Ventilation.**  
**Uniform**  
**Temperature.**

**WOODEN VILLAS, SUMMER HOUSES, &c., of Swedish construction and design, for home or export.**

**IMPORTERS OF TIMBER, FLOORINGS, MATCHINGS, JOINERY, &c.**

**HOLLIS BROTHERS & CO., LEICESTER.**



Leading  
Decorators  
throughout the  
Kingdom  
supply  
The "J. L. & S." Art  
Wall Papers.

\*\*\*\*\*

All Goods  
Invoiced through  
the Trade.



JOHN  
LINE & SONS'  
New Pattern  
Books  
meet every  
requirement.

\*\*\*\*\*

Registered  
Patterns by  
Eminent Designers.  
Samples free.

## "DURESCO"

*Stands well on damp Plaster unfit for Oil Paint.*

**THE ONLY WASHABLE AND DURABLE WATER PAINT!**

**Forty-two Colours and White, 30s. per Cwt.**

Any shade to order! Much cheaper than Oil Paint! Renewals cost less than Distemper!

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To stop Suction, for Clearcolle, and dilution purposes.

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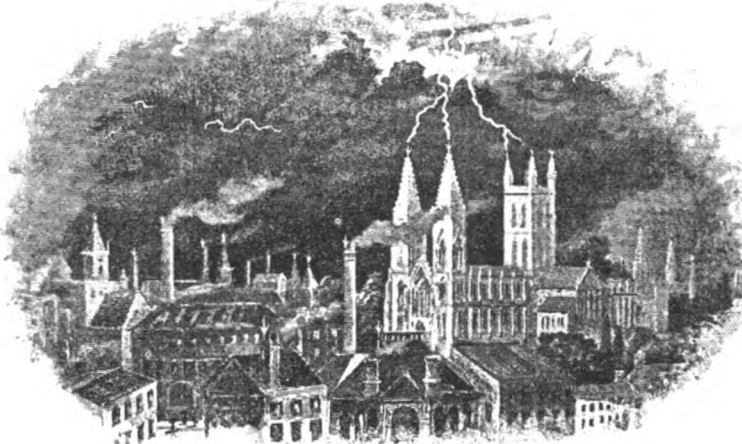
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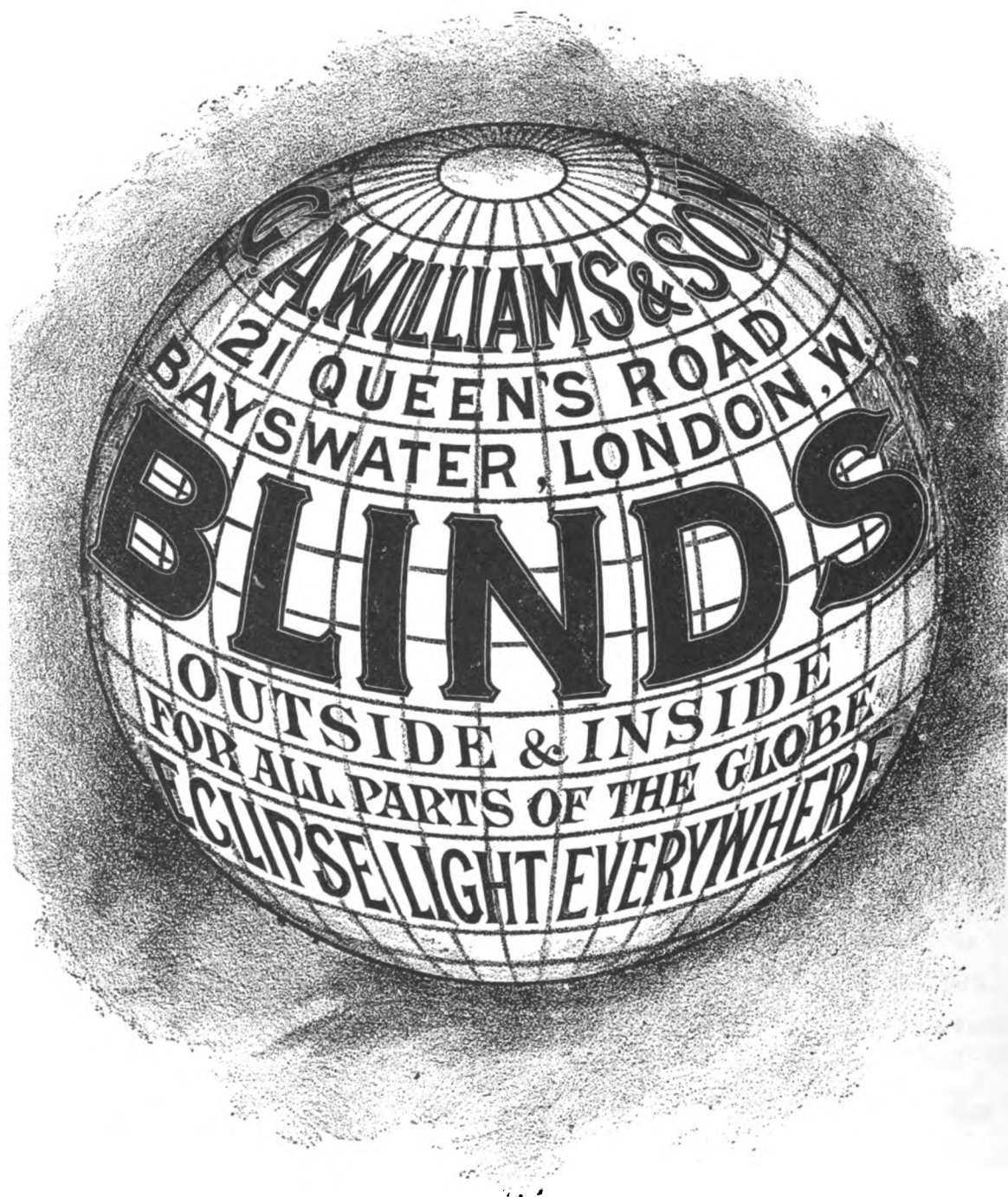
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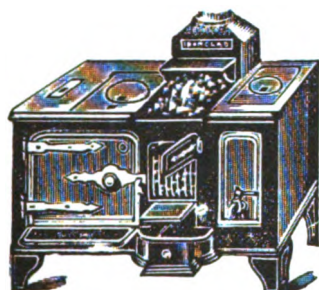


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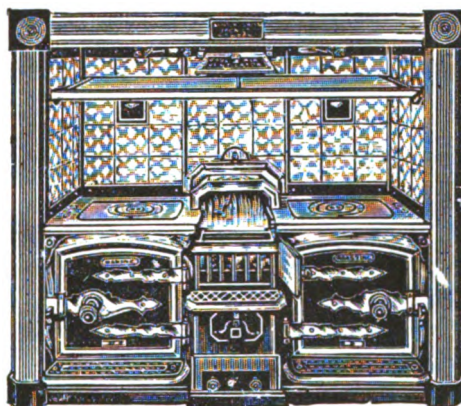


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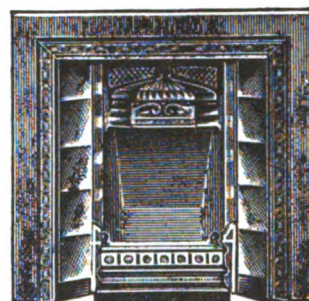
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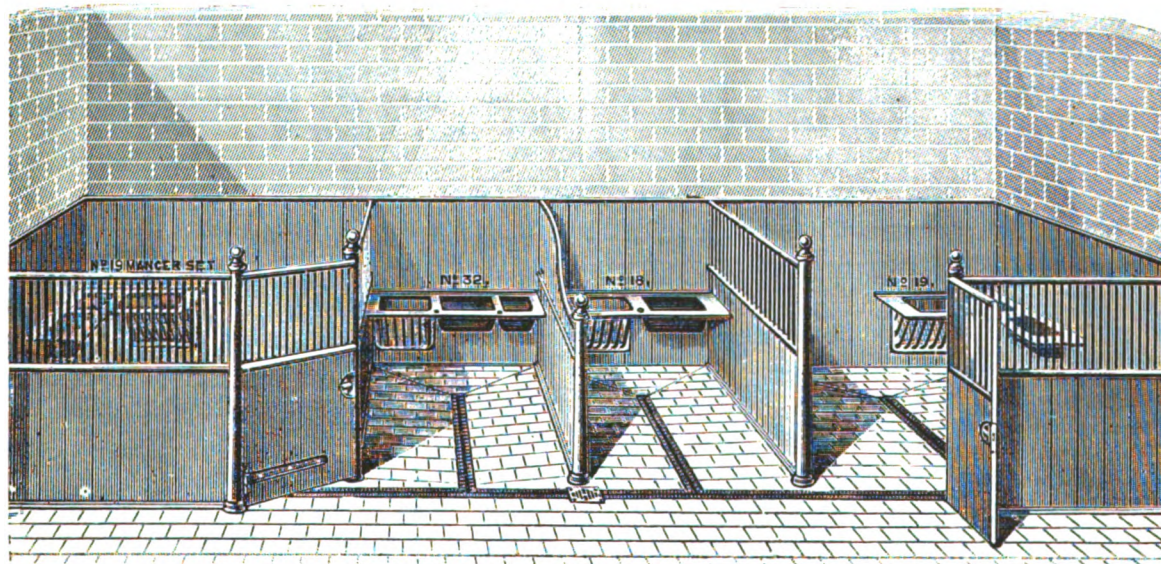
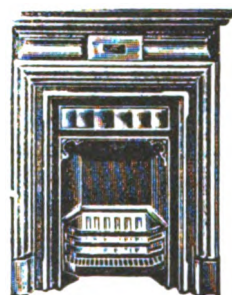


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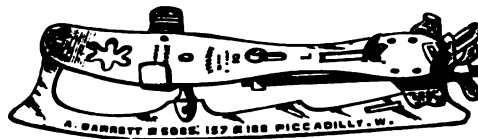


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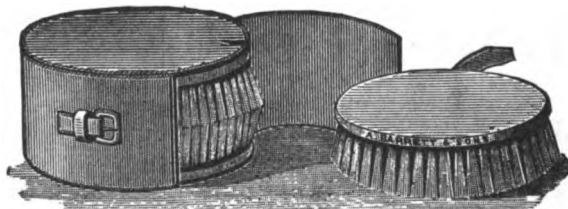


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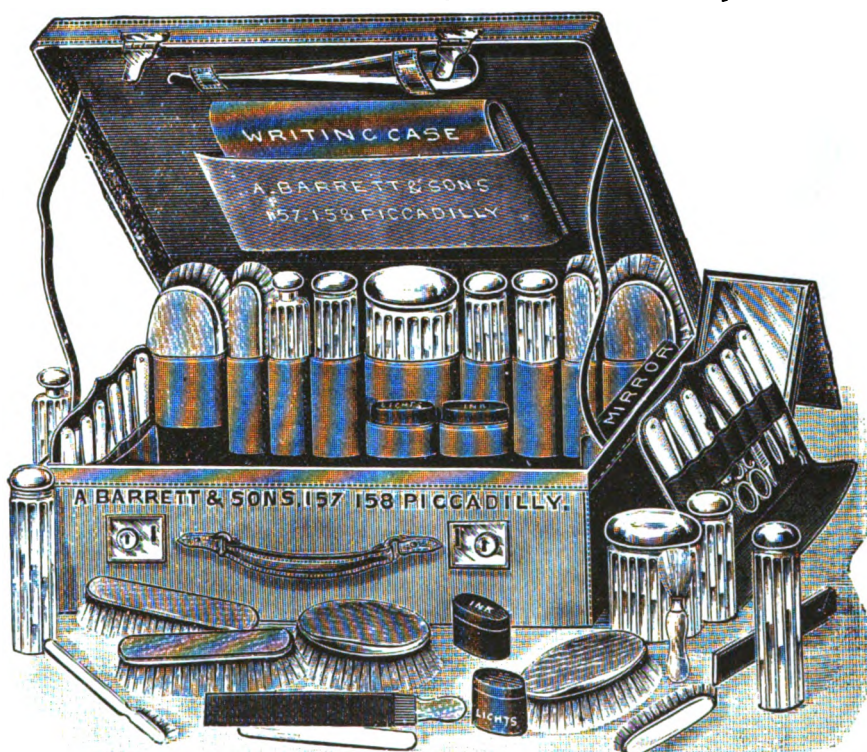
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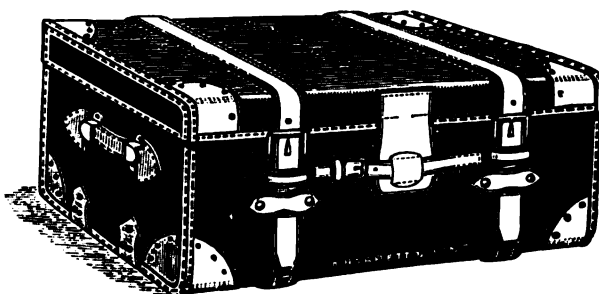
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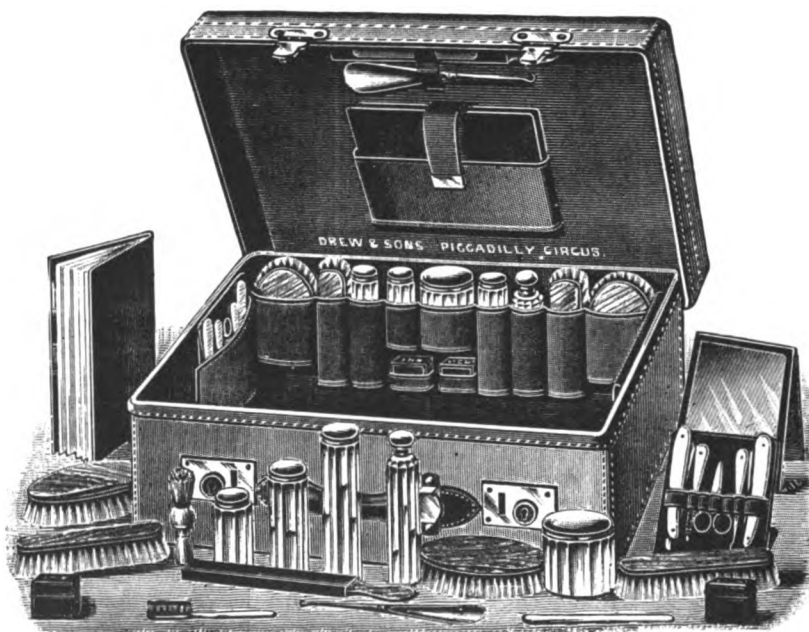
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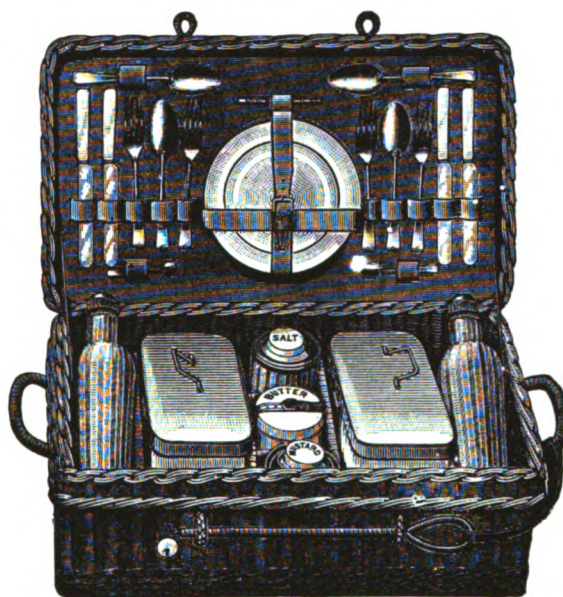
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23 C.G.	3	19 × 12½ × 7½	Two large patent bottles, 2 large china provision boxes with plated covers, 3 glasses, 3 plates, 2 condiment jars, 3 knives, 3 forks, 1 spoon, salt spoon, and padlock ..	41/6	23 C.G.
24 C.G. (as design.)	4	21 × 12 × 8	Two large patent bottles, 2 large china provision boxes with plated covers, 4 glasses, butter jar, 4 plates, 2 condiment jars, 4 knives, 4 forks, 4 spoons, mustard and salt spoons, and padlock .. .. .	48/6	24 C.G.
25 C.G.	6	22 × 16 × 13	Three large patent bottles, 3 china provision boxes with plated covers, salt and mustard jars, 6 glasses, 6 plates, 2 meat dishes, butter jar, 1 pair carvers, 6 knives, 6 forks, 6 spoons, salt and mustard spoons, corkscrew, and padlock; spaces for bread and champagne ..	76/6	25 C.G.

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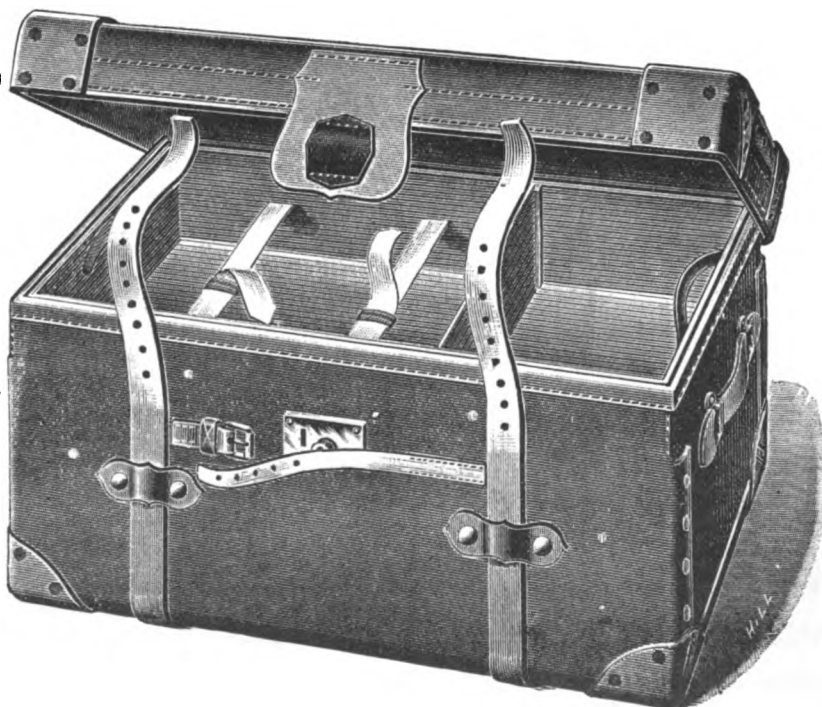
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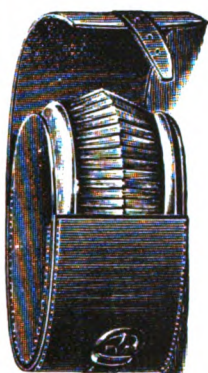
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Manufacturers of Eighty Years' standing, supplying the Public direct at Wholesale Prices for Cash.

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*Show-Rooms:* { **66, CHEAPSIDE, E.C.** (Next Sir John Bennett's.)



Pair Ivory Military Hair  
Brushes, in Solid Leather  
Case, **£2 18s.**  
 Pair Ebony Ditto, in similar.  
**17s. 6d.**



Lizard or Crocodile  
Skin Covered Flask,  
"Queen's" Plate  
Cup and Cap,  
 $\frac{1}{2}$ -pint, **24s.**  
 $\frac{1}{4}$ -pint, **28s.**



Solid Silver Concave Flask,  
**£2 15s.**



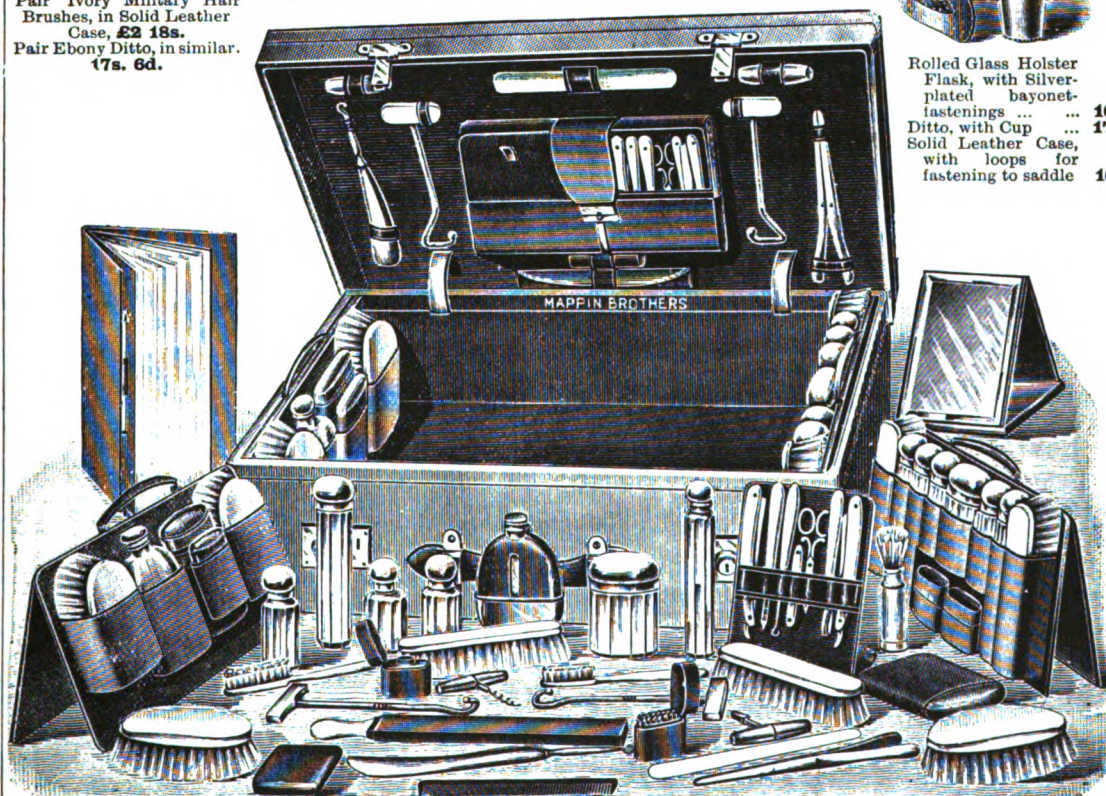
Finest Cut Glass  
Flask, "Queen's"  
Plate Cup and Cap,  
 $\frac{1}{2}$ -pint, **13s. 6d.**  
 $\frac{1}{4}$ -pint, **15s. 6d.**



Rolled Glass Holster  
Flask, with Silver-  
plated bayonet-  
fastenings ... **10/6 ... 17/**  
 Ditto, with Cup ... **17/6 ... 42/**  
 Solid Leather Case,  
with loops for  
fastening to saddle **10/6 extra.**



Solid  
Silver.



**MAPPIN BROTHERS' Solid Leather Dress Suit Case,**

**27 inch, Lined Leather, Fitted with Nickel Mounted Toilet Bottles, Solid Ebony Brushes, Fine Cutlery, &c., £16 16s. Same Fitted with Sterling Silver Mounted Toilet Bottles and finest African Ivory Hair Brushes, &c., £22 10s. Other Designs from £12 12s. to £50.**

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**SPORTING, MILITARY,  
AND  
LADIES' BOOTMAKERS.**

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**ORIGINAL MAKERS OF**

## **LEATHER WATERPROOF BOOTS**

For SHOOTING, FISHING, &c. Guaranteed Waterproof without  
the aid of grease.

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## **DRESSED BORDEAUX,**

For SHOOTING, and COUNTRY WALKING BOOTS. A Brown  
or Black Leather which has the properties of turning water  
and keeping always soft.

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**MAKERS OF SHOOTING BOOTS TO**

**H.R.H. The DUKE OF SAXE-COBURG.**

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**HUNTING TOP-BOOTS & BUTCHER BOOTS.  
POLO BOOTS.**

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**OUTFITS FOR THE SERVICES.**

**OUTFITS FOR THE COLONIES.**

**ALPINE CLIMBING BOOTS.**



ESTABLISHED A.D. 1700.**JOHN KNOWLTON PREEDY,****Hatter, &c.,****12A, REGENT ST. (Near Waterloo Place), LONDON, S.W.**

	CASH.	CREDIT.		CASH.	CREDIT.
SILK HATS .. .. .	15/6	17/0	SAXONY WOOL TAM O'SHANTERS,		
" " 2nd quality .. ..	19/6	21/0	blue, brown and grey .. .. from	2/6	3/6
" " very best quality .. ..	22/0	24/0	BOYS' Do. .. .. .	2/0	3/0
BOYS & YOUTHS' Do., 2nd quality ..	10/6	11/6		8/6	9/6
" " " best " .. ..	14/6	16/0	TWEED SHOOTING HATS AND	10/6	11/6
LIVERY HATS, from 12/6, 16/6, 19/6, 21/0			HELMETS, in all shapes, best quality	12/6	13/6
LIVERY COCKED HATS (laced) from		70/0	MEN'S BOATING STRAWS—		
Gold and Silver Band and Bindings			(One of the largest stocks in London)		
according to width, &c.			Single brims .. .. .	4/6	5/6
Silver Cordz and Tassels .. ..	4/6		Double do., extra hard .. ..	7/6	8/6
Gold " " .. ..	5/6		Silk and Coloured Bands, extra.		
HUNTING HATS .. .. .	16/6	18/0	PANAMA STRAWS, various shapes, from		
" " best quality .. ..	23/0	25/6	10/6, 12/6, 18/6, 25/0, 35/0, &c.		
Guards .. .. .	from 1/0		GENTLEMEN'S LEGHORN Do., from	4/6	
BISHOPS' CLERICAL SILK HATS,			(CLERICAL) Do. black or dark brown ..	7/6	8/6
strings and rosette, best quality ..	23/0	25/0	SOFT CLERICAL STRAWS, black,		
ARCHDEACONS' Do., and rosette ..	22/0	24/0	brown, and grey mixture .. ..	7/6	8/6
OPERA FOLDING HATS .. from	15/0	16/6	ELLWOOD'S HELMETS for India and		
FELT HATS, best quality .. ..	13/6	14/6	the Tropics, from 12/6, 17/6, and 21/0		
" " square crowns .. ..	14/6	15/6	SOFT DRAB TERAI DOUBLE FELT		
YOUTHS' Do. .. .. .	10/6	11/6	HATS .. .. .	17/6, 21/0, and 25/0	
" " 2nd quality .. ..	8/6	9/6	White or Brown Canvas Helmets.		
GENTLEMEN'S SOFT FELTS, best	13/6	14/6	N.B.—Any shape not in Stock to Order.		
"THE HOMBURG HAT," as worn by			LEATHER HAT CASES for single		
H.R.H. Prince of Wales .. ..	10/6	11/6	Hats .. .. .	10/6	11/6
SUPERFINE FRENCH Do. .. ..	14/6	15/6	Do., SOLID LEATHER, with space for		
CLERICAL FELT HATS (stiff) ..	10/6	11/6	Collars, &c. .. .. .	21/0	23/0
" " " best .. ..	12/6	13/6	Do., FOR 3 HATS, from 42/0 to 63/0		
SOFT Do. (several shapes) 8rd quality	8/6	9/6	GENTLEMEN'S UMBRELLAS, Natural		
" " " 2nd " .. ..	10/6	11/6	Sticks, Union .. .. .	10/6	11/6
" " " best " .. ..	13/6	14/6	Silk Union, best .. .. .	16/6	17/6
TWEED TRAVELLING CAPS in great			Pure Silk .. .. .	12/6	13/6
variety .. .. .	5/6	6/6	Very best Spitalfields Twill Silk .. ..	24/	26/6
Buckskin, Cord, and Leather do. ..			A Large Selection of Ladies and Gentle-		
BLUE CLOTH YACHTING CAPS, from	8/6	9/6	men's Silver Mounted Umbrellas, from		
Do., finest Cloth and Mohair band ..	12/6	13/6	21/0 to 63/0, &c.		
VELVET SKULL CAPS .. .. .	10/6	11/6	CARRIAGE UMBRELLAS, 14/6, 18/6,		
SILK Do. .. .. .	6/6	7/6	and 21/0.		
VELVET HUNTING CAPS, 25/0 to 35/0			A large Assortment of Walking Sticks, Plain or		
			Gold and Silver Mounted, &c.		
			A Choice Selection of Mounted Malacca Canes,		
			Whanghee Canes, and Real Irish Blackthorns.		
			Fur-lined Overcoats .. .. from	£9 9s.	

INVENTORS and SOLE MANUFACTURERS of the OFFICIALLY

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This cut shows a pair of our 'Gold Medal Trousers' with the usual socks for protecting the feet, and a pair of high leather and canvas Brogues.

**GOLD MEDAL FISHING TROUSERS**

45/-, 38/6, 35/-, 28/6, 24/6 per pair.

**GOLD MEDAL FISHING STOCKINGS,**

27/6, 23/6, 21/-, 18/6, 13/6 per pair.

**FISHING BROGUES,**

25/-, 21/-, 18/6, 15/6, 11/6, 10/6 and 9/6 per pair.

**LONG RUBBER FISHING BOOTS.**

Best Quality 23/9, Second 21/-

**RUBBER KNEE BOOTS,**

21/6, 19/6, 18/9, and 16/9 per pair.

**The "Buckland" Waders,**

(Stockings and Brogues combined) With our Registered "Trot" Soles, 69/6 per pair,

Do. for Ladies and Boys, 63/-.

**The "Cholmondeley-Pennell" Over-Knee Waders,**

(REGISTERED)

63/- per pair.

Highly Recommended in the Badminton Library of Sport.

**WATERPROOF FISHING JACKETS,**

21/- and 42/- all sizes.

**DRIVING COATS AND CAPES.**

FOR LIVERY SERVANTS.

Coats, drab rubber... .. 22/6 to 44/-

,, dbl. blue-black ... .. 40/- „ 54/-

Capes with sleeves, drab rubber 21/- „ 46/-

,, „ dbl. blue-black 42/- „ 56/-

**DRIVING APRONS.****BLACK RUBBER.**

Lined blue, 5 feet, 21/-; 6 feet, 23/-

**BLACK OR DRAB RUBBER.**

Lined blue, brown, or green, Rubber-faced at bottom, 5 feet, 30/- ... 6 feet, 35/-

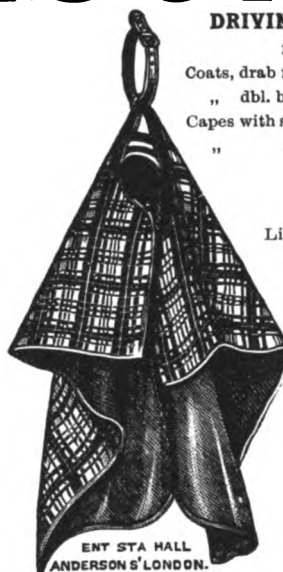
**DOUBLE TEXTURE PARAMATTA.**

Lined blue, rubber-faced at bottom, 5 feet, 30/- ... 6 feet, 35/-

**WATERPROOF SHEETS AND COVERS,**

For Carriages, etc.

15/- to 67/6.

**THE "BREADALBANE" WATERPROOF SHOOTING****COSTUME.**

Consisting of Cape and Kilt,

60/- complete;

Separately—Capes 27/6, Kilts 32/6.

The "Breadalbane" Costume has been adopted by the leading Sportsmen because it is

**LIGHT AND DURABLE,** enables them to**SHOOT WITH EASE AND COMFORT,** to**WALK ANY DISTANCE WITH EASE,** and above all **TO KEEP DRY.**

Shooting Capes ... ..	21/- to 33/6
„ Sleeves ... ..	5/6 „ 9/6
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„ Coats, the "Buckland" ... ..	52/6
Gun Covers ... ..	4/6, 6/6, and 8/6
Cartridge Bags ... ..	4/6 to 16/6
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**GOLD MEDAL YACHTING OIL-SKINS.**

The "Osborne" Oil-skins, beautifully light, clean &amp; strong.

FOR GENTLEMEN.

Coats ... .. 29/- to 33/-

Jackets ... .. 22/6 „ 23/6

Trousers ... .. 12/6 per pair.

Improved Westers 6/6 each.

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Coats ... .. 27/6

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**Ordinary Oil-skins.**

Coats ... .. 8/6 to 23/6

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**Waterproof KIT BAGS.**

To Rope ... .. 13/6 to 21/-

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**AIR BEDS for YACHTS.**

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## 37, QUEEN VICTORIA ST., LONDON, E.C.

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SEALED REGULATION ARMY and ADMIRALTY WATERPROOFS.

# WATERPROOFS.

THE "SYLVIA" LADIES' WATERPROOF,  
The Cape can be worn separately.



## LADIES' WATERPROOFS

The "Sylvia," as illustrated,  
17/6 upwards.

The "Cynthia," similar  
to above, but with two frills,  
19/- upwards.

Complete list with patterns  
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the shapes and patterns are  
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## GIRLS' WATERPROOFS.

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Waterproof Sheeting for  
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36" wide 1/8 to 4/9, 54" 5/6,  
60" 5/- to 7/6 per yard.

NURSING APRONS,  
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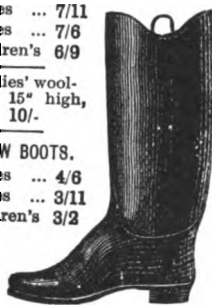
## RUBBER LEG BOOTS.

Ladies ... 7/11  
Misses ... 7/6  
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Ladies' wool-  
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10/-

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Ladies ... 4/6  
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The "Chesterfield," as illustrated,  
In Dbl. Tweeds, 25/- upwards.

The "Rosebery" Waterproof  
(no sleeves, with deep cape), in  
Dbl. Tweeds, 30/- upwards.

Black Rubber Coats, 7/6 upwards.

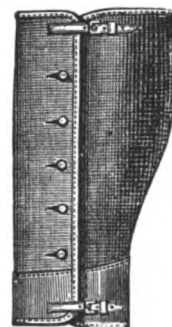
The New Improved  
Army Regulation Waterproofs,  
Our sealed pattern,  
47/6, all sizes.

Do., for Civilian Wear,  
35/- and 27/6.

The New Improved Admiralty  
Waterproof,  
(Coat and Cape) our sealed pattern,  
66/6, Standard quality.  
Second quality, 49/6.



WATERPROOF LEGGINGS,  
In Grey or Brown Canvas, leather at bottom  
8/6 per pair.



## RUBBER HOT WATER BOTTLES.

10 in. x 6 in.	...	...	...	3/8
11 in. x 7 in.	...	...	...	4/2 1/2
12 in. x 8 in.	...	...	...	4/9
13 in. x 9 in.	...	...	...	5/6
14 in. x 10 in.	...	...	...	6/4
15 in. x 11 in.	...	...	...	7/2
16 in. x 12 in.	...	...	...	7/11

Less 5 per cent. discount for cash.

Air Pillows	...	...	5/6 upwards.
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Water Beds for Sale or Hire.



## RIDING WATERPROOFS.

The Improved "Bailey" Aprons, 12/6, 14/6 and 18/6.

## RIDING COATS,

Ventilated, 35/- and 47/6.

RIDING THIGH KNEE LEGGINGS,  
10/6 to 17/6.

VALISES FOR THE SADDLE,  
4/6 to 8/6.

LADIES' RIDING WATERPROOFS.  
Aprons 17/6 & 22/6. Jackets 22/6 & 42/-

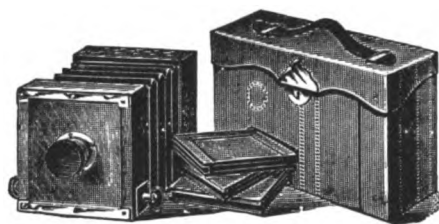


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HOLDALLS, to carry Rugs, Coats, Cloaks, etc. ... 10/6 RUBBER MATS ... 1/3 lb.  
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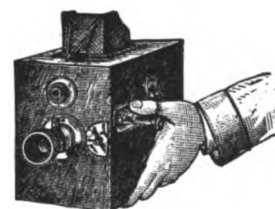


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The "Binocular" com- plete with enlarging apparatus to $7 \times 5$ in.	10	10	0
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KODAKS in all sizes from	7	0	0

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## WATERPROOF GARMENTS

Of every kind, suitable for all climates.

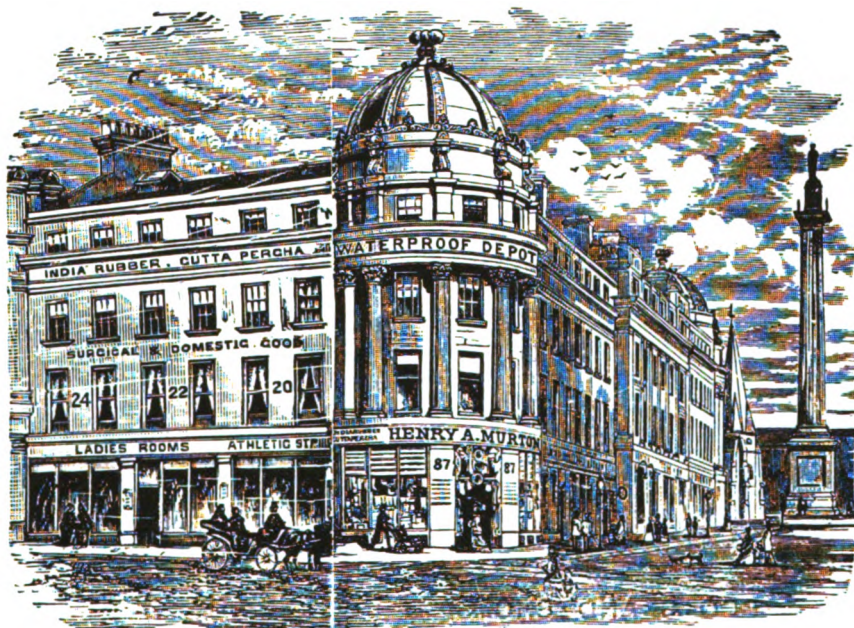
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AS APPLIED TO

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**Specialities: TRAVELLERS' AND SPORTSMEN'S WATERPROOFS,**  
And all other Requisites.

**MAKER OF THE MILITARY REGULATION CLOAK.**

**LADIES' CLOAKS, CAPES, MANTLES & WRAPS.**

*Leggings, Gaiters, Spats, Snow Shoes, Goloshes and Rubber Boots, etc.*

**87 to 109, Grey Street; 20 to 24, Market Street,  
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## Gentlemen's Waterproofs.

Prices given are ordinary size, larger or smaller vary in proportion.

**TWEED CHESTERFIELD**, 25/- to 84/-; with detachable Shoulder Cape 21 in. deep, 25/- to 95/-.

**DRAB BOX COATS**, Single and Double Breasted, large Pearl or Horn Buttons, suitable Woollen Linings, Prices, 63/- to 105/-, also Dark Navy, Green, and Brown.

**HUNTING AND RIDING COATS**, light weight, yet strong and durable, 42/- to 55/-, with Leggings attached, and thoroughly ventilated.

**MAKER OF THE MILITARY REGULATION CLOAKS**, 35/-, 45/- to 56/- each.

**COATS**, with long Cape attached all round, no sleeves, superior patterns and fabrics, for driving or walking, 35/- to 90/-.

**SHOOTING COATS**, Ventilated Shoulder Capes, 35/- to 50/-.

" **CAPE**S, with Shoulder Slings, 12/6 to 42/- each.

" **SKIRTS** or **APRONS**, 12/6 to 25/- each.

**FISHING COATS**, light and portable, 12/6 to 25/-.

**FISHING COATS**, ventilated, 21/- to 30/-.

**CAPE**S, 10/6 to 15/-.

**INVERNESS CAPE**S, 35/- to 63/-.

**PONCHOS**, 12/6 to 25/-.

**SHOULDER CAPE**S 10/6 to 42/-.

**LEGGINGS**, Waterproof, Canvas, and Tweed, 4/6, 5/6, 6/6.

Leather, all shapes, 4/6 to 10/6.

**RIDING LEGGINGS**, Newmarket Shapes, in Drab Box Cloth, Tweeds, Pigskin, Tan Leather, and other materials, 8/6 to 15/- per pair.

### BOOTS AND SHOES.

In Rubber, Ladies' Wellington, 10/6 and 12/6; Gent.'s, 21/- to 30/- per pair. **SNOW SHOES**, 5/- to 8/6. **GOLOSHES**, 2/6 to 4/6. **OVERSHOES** of all kinds. Novelties for Ladies' and Children's wear.

### LADIES' WATERPROOFS.

Lovely patterns, proofing, shape and style guaranteed. The "SCARBORO," prices, 25/-, 30/-, 35/- to 84/- The "BRIGHTON," prices 25/-, 30/-, 35/- to 84/- The "CIRCULAR," 10/6 to 25/- The "RUSSIAN," "TYNEDALE," and every Novelty as it appears.

### CHILDREN'S Mantles, Capes, Leggings, Boots and Shoes.

**FARM SERVANTS' AND DRIVERS' Cheap Oil Suits and Leggings**, Shoulder Capes, Overalls, &c.

### SERVANTS' WATERPROOF LIVERIES,

Comprising:—Coachman's Coat or Cape, with Sleeves, Footman's Coat and Driving Apron, 3½ to 5½ Guineas.



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BY SPECIAL APPOINTMENTS  
To Her Majesty the Queen  
THE ROYAL FAMILY

H.R.H. THE PRINCE OF WALES.  
H.R.H. THE PRINCESS OF WALES  
AND THEIR ROYAL CHILDREN.

AND THE SEVERAL EUROPEAN COURTS.

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FOR GREAT EXCELLENCE.

"What, is my beaver easier than it was?"

Richard III. Act v. Sc. III.



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FOR GREAT EXCELLENCE.

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ROBERT HEATH INVENTED THIS SYSTEM OF MEASUREMENT IN 1849,

FULL FORTY YEARS EXPERIENCE PROVES IT TO BE MOST SUCCESSFUL.

TO HORSEMEN and LADIES WHO RIDE

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**"PRIZE MEDAL SILK HATS," Price 14/6 16/6**



S 1



X 1



A 4



D 1



FOR GREAT EXCELLENCE.

**ROBERT HEATH'S** Hats are worn with the comfort of a soft felt hat.  
**HIS BEST QUALITY** is exceptional. The richest silk is reserved for their manufacture.  
 Their beautiful brilliant jet appearance is most lasting. **BEST QUALITY, 21/- & 23/-**  
**P.S.—THE BEST QUALITY MATERIALS, ONLY, ARE USED IN THE MANUFACTURE OF ALL GOODS**  
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**FELT or CLOTH**  
**HUNTING HAT.**  
 16/6 18/6

**M.F.H.**  
**SOFT BRIM**  
**HUNTING HATS,**

The M.F.H.  
 Flexible Brim  
**HUNTING HAT**

See Field, Feb. 10th, 1888. 18/6, 21/6 23/

**Drab Hat,**  
 14/6, 17/6 & 18/6.

**"SAFETY,"**

"THE BEST HATS FOR HUNTING ARE MADE WITH"  
**"ROBERT HEATH'S New Invention, June 1878."**  
**The M.F.H. "Duplex Lining" And FITTED "Configurotype."**

These Hats stick on securely across the roughest countries.  
 This LINING most effectually protects the head in event  
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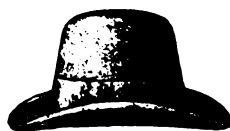
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Price 8/6, 10/6, 12/6



108



Tyrol



162 A

Gentlemen's Felt Hats of  
 finest Qualities and lasting  
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In all shades of Colour,  
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 8/6 10/6 12/6 14/6



61



168



100

**24 & 25, ST. GEORGE'S PLACE,**  
**HYDE PARK CORNER, S.W.**

**NO OTHER ADDRESS**



175



12/6

167



12/6 & 14/6

95



10/6

177<sup>a</sup>



10/6

177<sup>a</sup>

### TWEED SHOOTING ANTI-SUNSTROKE.

Does not obstruct the sight  
Well protects Neck and Ear:  
from Sun, Wind and Rain.

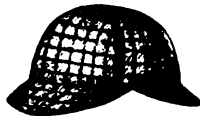
*Does not confine the Heat and Breath  
around the Head.*



**YACHTING CAPS. 8/6, 10/6, 12/6**  
Badges of the Principal Yachting Clubs  
kept in Stock.



149<sup>c</sup>



17



149

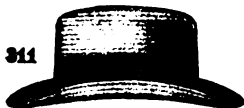


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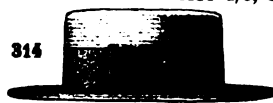


Travelling

Caps in all the most approved Shapes in Harris' Tweeds, Home Spuns, Buckskins, &c.,  
Price 4/6, 5/6, 6/6, 8/6 &c.



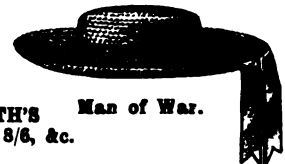
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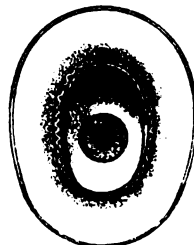
For the Moors and  
Country Summer Wear.

**STON STRAW BOATING HATS** lined with **ROBERT HEATH'S**  
**VENTILATING HEAD BAND**, Cool and Comfortable 5/6, 6/6, 8/6, &c.  
Bands in Club and other Colours in great variety.

Man of War.



**FELT**  
18/6.



Underside view of Hat, to show the simple method  
securing coolness and perfect Ventilation.

*Sent in the Country on receipt of a Reference  
or Post Office Order.*

A tape measured round the head will ensure a  
comfortably fitting Hat, specially considered  
for Windy Weather, Riding, Driving,  
Yachting, Shooting, &c.

**THE ANTI-SUNSTROKE HAT.**  
Unobstructed Sight, and does not  
confine the Heat of the Head and  
BREATH around the Head  
As in the Ordinary Sun Helmet.

**ROBERT HEATH'S**  
"CHAPEAUX BRAS" POCKET HATS.



FOLDING.



for the Pocket  
10/6 & 12/6.

For BALL, or OPERA, or TRAVEL,  
DINING PARTIES, RECEPTIONS, &c.

TELEPHONE  
NUMBER  
8519.

24 & 25, ST. GEORGE'S PLACE,  
Near Wilton Place, HYDE PARK CORNER, S.W.

NO OTHER ADDRESS

TELEGRAPHIC  
ADDRESS  
HEADCOVER  
LONDON.

# NAVAL, MILITARY & COURT DRESS HATS.

**ROBERT HEATH** respectfully intimates  
that he keeps a large stock of

## SERVANTS' LIVERY HATS

Ready for immediate use

ESPECIALLY CONSIDERED FOR

HER MAJESTY'S MINISTERS,  
LIEUTENANTS & DEPUTIES OF COUNTIES,  
AND THE SHERIFFS,  
DIPLOMATIC MINISTERS,  
MILITARY & NAVAL OFFICERS,  
HER MAJESTY'S DRAWING ROOMS  
LEVEES & other Official Ceremonials.



COURT DRESS HATS.



MILITARY.



NAVAL.

TO INSURE SUPERIOR EXCELLENCE MANUFACTURED ON THE PREMISES.

## SERVANTS' LIVERY HATS. FUR LIVERY CAPES and CARRIAGE UMBRELLAS.



STATE LIVERY HAT.

### SERVANTS' LIVERY HATS

To insure superior excellence Manufactured on the Premises

A good Waterproof Livery Hat	..	12/6
A superior	..	14/6
A " Fine quality	.. ..	16/6
The Best	.. ..	18/6

GOLD and SILVER BANDS equally low.

The Best Linc only is used.

Cockades & Waterproof Covers. Carriage & Hall Umbrellas



TO INSURE

SUPERIOR

EXCELLENCE

MANUFACTURED

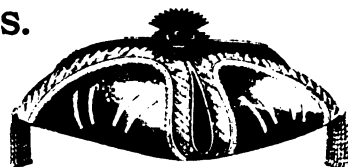
ON THE

PREMISES.

### CARRIAGE UMBRELLAS

THE DRIP FROM WHICH DOES NOT  
STAIN DRAB & LIGHT LIVERIES.

2,000 TO SELECT FROM.



STATE LIVERY HAT.

SERVANTS' FUR LIVERY CAPES  
BLACK LLAMA... 50/- & 63/-  
BROWN & BLACK BEAR 168/-  
BLACK RACCOON ... 135/-  
NATURAL do. ... 120/-

Fur Cuffs from 12/6 per pair

Fur Gauntlet Driving Gloves  
10/6 per pair.



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# ROBERT HEATH, HAT MAKER TO THE ROYAL FAMILY.

ONLY ADDRESS, 24 & 25, ST. GEORGE'S PLACE, HYDE PARK CORNER, S.W., NEAR TATTERSALL'S.  
TELEGRAPHIC ADDRESS "HEADCOVER" (WRITTEN AS ONE WORD) LONDON. TELEPHONE NO 8519.



No. 1 Stout Leather.....16/6  
 Solid Sole Leather...42/-

## SOLID "SOLE" LEATHER HAT CASES,

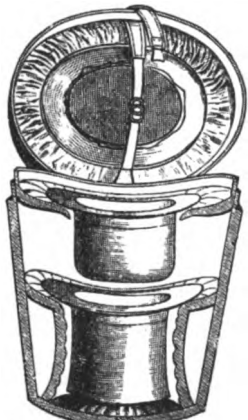
With "Self-Acting Locks, Fasten and Open  
 with or without Key.

ALL HAND-SEWN. BEST WORK IN LONDON.

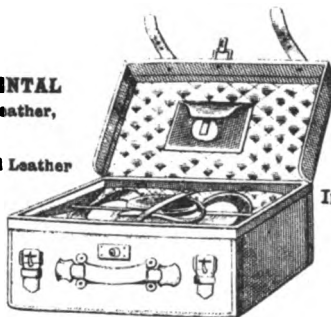
"REAL" RUSSIA LEATHER. PIG SKIN CROCODILE, &c.



No. 2 Stout Leather.....21/-  
 Solid Sole Leather.. 45/-



No. 2 Stout Leather..... 55/-  
 Solid Sole Leather.. 70/-



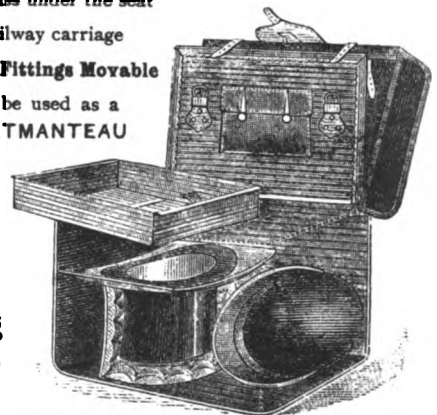
No. 7  
**THE CONTINENTAL**  
 In Solid Sole Leather,  
 84/-  
 2nd quality, Solid Leather  
 63/-

Will pass under the seat  
 of railway carriage  
 Interior Fittings Movable  
 can be used as a  
 PORTMANTEAU

Ladies' and Gentlemen's COMPENDIUMS  
 fitted for Hunting Travelling, Yachting, etc  
 Made of Stout Waterproof Canvas. 50/- & 55/-,  
 or in SOLID SOLE LEATHER, 105/-.

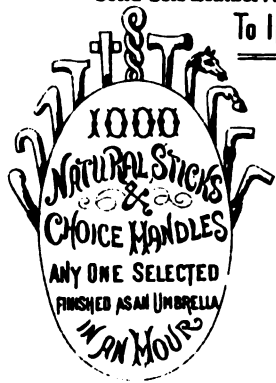
Arranged to contain the Riding or Hunting  
 Hat with the complete Riding Equipment,  
 and Second Hat for Walking or Riding.

CONVENIENT FOR LADIES AND GENTLEMEN VISITING.



No. 6  
 PORTMANTEAU HAT CASE.

TO INSURE SUPERIOR EXCELLENCE MANUFACTURED ON THE PREMISES.



**SPECIALTES**  
**14. 21. 25.**

**GENTLEMAN'S HAT**

**COMPANION UMBRELLA**



**ROBERT HEATH**

Sollicite an inspection of his

"GENTLEMAN'S UMBRELLA,"

"His own Manufacture," from a special  
 quality of Handwoven Spitalfields Silk.  
 It may be called old-fashioned.—It is  
 certainly more durable than any foreign silk.  
 2,000 to select from.

"READY MONEY PRICE."

**16/6 AND 21/**

IMPROVED CARRIAGE & DRIVING UMBRELLAS. UMBRELLAS for the TROPICS.  
 UMBRELLAS NEWLY COVERED or repaired in a FEW HOURS.

TWO ROYAL LETTERS PATENT have been granted by HER MAJESTY  
 to ROBERT HEATH for IMPROVEMENTS in UMBRELLAS.

24 & 25, ST. GEORGE'S PLACE.

Near Wilton Place.

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# THE PATENTED UMBRELLA UPHOLDER.



ROBT. HEATH'S  
PATENT "UMBRELLA UPHOLDER"



For "The LANDSCAPE"  
The Upholder 17/6  
Folding Seat 9/6 Sun Umbrella 12/6



"En Route."

For The "Artiste or Angler"

The Upholder, Folding Seat and Umbrella  
complete in one, used as an Alpenstock

Price . . . 39/6



For "The GARDEN LAWN"  
The Upholder . . . 17/6  
Folding Seat 9/6 Sun Umbrella 12/6



## ROBERT HEATH'S PATENT UMBRELLA HOLDER.

Best Improved 17/6. Jointed in centre for convenience in Travelling 4/6 extra.

Is a LIGHT BAMBOO ALPENSTOCK shod with a stout "SCREW SPIKE." This a Lady can with ease SCREW into the HARDEST GROUND. no HAMMERING required. At a convenient height is the PATENT UPHOLDER to receive the Ordinary or Sketching Umbrella. By tightening or loosening the Screw Fly Nut the UMBRELLA can be FIXED and UPHELD IN ANY POSITION necessary to protect the sitter from SUN, RAIN or WIND.

Can only be obtained from ROBT. HEATH 25 ST. GEORGE'S PLACE. HYDE PARK CORNER, LONDON.

**POCKET SOU' WESTER HOOD-CAPE.**

Silk...21/-.  
Lawn...12/6.  
Sent by Post.

**WATERPROOF.**  
Weight 2 ozs.



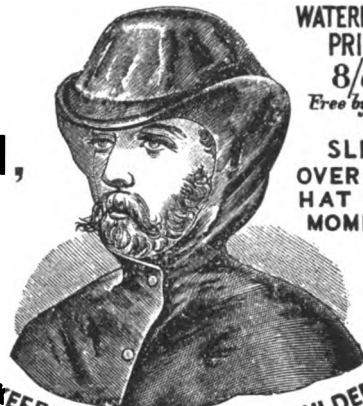
SLIPS OVER  
ANY BONNET  
OR HAT IN  
A MOMENT.

**KEEPS HEAD NECK & SHOULDERS  
"QUITE DRY"**

For BALLS, the OPERA, &c. in Quilted Silk.  
For WINTER, in Vicuna and Fur-Lined.

**POCKET SOU' WESTER HOOD-CAPE.**

**WATERPROOF.**  
PRICE  
8/6  
Free by Post



SLIPS  
OVER ANY  
HAT IN A  
MOMENT

**KEEPS HEAD NECK & SHOULDERS  
"QUITE DRY"**

INVALUABLE to the Yachtsman, the Angler,  
or Tourist, and for Driving, Cycling, &c.

**MANUFACTURED  
ONLY BY  
ROBT. HEATH,**

24 & 25, St. George's Place,  
HYDE PARK CORNER.

**ROBT HEATH'S  
PANAMA HATS  
NATURAL GRASS  
SUN PROOF  
UNSPOILABLE  
BY RAIN.**

CAN BE WORN IN EITHER  
OF THESE SHAPES AS DESIRED.



PANAMA HAT  
THE BRIM WORN TURNED UP ALL ROUND  
"WIDE-A-WAKE" SHAPE



PANAMA HAT.



Panama for Yachting.



THE SAME PANAMA HAT THE BRIM WORN HALF UP HALF DOWN  
OR ENTIRELY DOWN ALL ROUND AFFORDING ANY AMOUNT OF SHADE DESIRED.



From 8/6 to 42/-

Folded for convenience of portability or  
forwarding by Post Office.

These most luxurious Hats for Summer Wear, are  
forwarded by Post on receipt of a Tape  
measured round the head.

**The "All England" PANAMA Lawn Tennis Hats.**

Imported by

**ROBERT HEATH**

**23, 24 & 25, ST. GEORGE'S PLACE,**

**HYDE PARK CORNER, S.W.**

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# MRS. ROBERT HEATH

## LADIES' HATTER

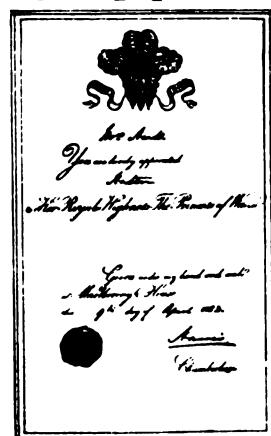
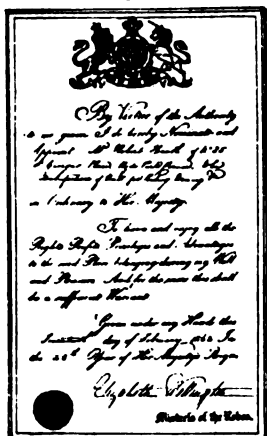
TRADE  
MARK



BY APPOINTMENT

TO HER MAJESTY THE QUEEN 1852  
TO H.R.H. THE PRINCESS OF WALES 1863

AND TO ALL THE COURTS OF EUROPE.



ONLY ADDRESS 24 & 25, ST. GEORGES PLACE, (Overlooking the Ladies Ride) HYDE PARK CORNER. S.W.

TELEGRAPHIC ADDRESS "HEADCOVER" (WRITTEN AS ONE WORD) LONDON. TELEPHONE N<sup>o</sup> 8519.

Mrs. HEATH'S "FLEXIBLE RIDING HAT" IS A REAL LUXURY.

Manufactured on a new principle, fitting "SECURELY" over any arrangement of hair and head-dress yet retaining the style and shape of the ordinary hard Hat.



MRS. HEATH will send a SELECTION of LADIES' HATS to any part of the Kingdom.



**RIDING HATS.**

Mrs. Heath's Patent fits securely over the hair plaits.

**LADIES' DRESS HATS.**

Fashionable for the Promenade and the Carriage.

**LADIES' HATS**

**BRIDESMAIDS' HATS.**

are especially favoured by Mrs. Heath.

For Archery, Driving, Yachting, the Country and Travelling.

CORRESPONDENTS will much oblige by furnishing their HOME OR RESIDENTIAL ADDRESS. A TOWN REFERENCE is requested in all instances in which there have been no previous dealings.

HENRY A. MURTON, NEWCASTLE-ON-TYNE.

**FISHING, SPORTING & TRAVELLING ARTICLES.**

WADING STOCKINGS AND TROUSERS. Stockings, 18/6 to 18/6; Trousers, 25/- to 35/-.  
BROGUES AND GAITERS, 21/-; SHOES, 15/- to 18/6; CLOGS, 12/6; SHOES  
(Felt Soles), 18/- to 21/-.

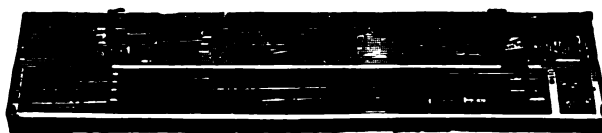
FISHING COATS, Ventilated, Light and Durable, 21/- to 26/6; CAPES, 8/6 to 15/6; HATS AND  
HAT COVERS, 1/6 to 5/-.

FISHING BAGS, 5/6 upwards, every make and shape in stock. CREELS AND BASKETS.  
THE "ULTIMUS" BAG, THE "TYNESIDE" CREEL. The most useful and convenient in the  
Market for the Practical Angler.

*Fishing Tackle of every description.*

Practical Rod Maker.

**Specialities: SALMON AND TROUT RODS.**



PIKE RODS, BOTTOM RODS, ROACH  
RODS, AND SPECIAL SEA FISHING  
RODS. All Warranted, and much below  
prices usually charged elsewhere.

Flies, Artificial and Live Bait. Casts and  
Traces, Hooks to Gut. Gut, Lines, Reels,  
Floats, and reliable Modern High-Class  
Tackle of every kind.

Drinking Flasks and Cups, Pocket Filters,  
Knives Tobacco Pouches, etc.



SHOOTING COATS, CAPES, LEGGINGS,  
GAITERS, SPATS, APRONS AND SKIRTS.

Cartridge Bags and Pouches, Game Bags, Recoil Pads,  
Finger Guards, Gun and Rifle Covers, Decoy Ducks,  
Pigeons, Teal, etc. Folding Pocket Seats, Ground  
Sheets and Aprons, Tents, etc.



TRAVELLING TRUNKS, PORTMANTEAUS, LEATHER BAGS,  
HUNTING KITS, HAND BAGS, CABIN BOXES AND  
TRUNKS.

FITTED DRESSING BAGS AND TOILET CASES.

Hold-"alls", Knee Rugs and Aprons, Sketch Satchells, Knapsacks,  
*en route* Packs.

**NURSERY AND SICK ROOM APPLIANCES.**

Abdominal Belts, 3/6, 4/6 and 5/6 each; Trusses from 3/6;  
Elastic Stockings, 3/6, 4/6 and 5/6 each; Hot-Water Bottles  
and Feet Warmers, 6/6, 7/6 and 8/6; Air Cushions from 5/6;  
Water Beds on Sale or Hire; Nursery Aprons, 2/6 and 3/6;  
Bed Sheets for Accouchement, 13/6 and 15/6; Crib Sheets,  
3/6 and 4/6; Enemas and Injection Bottles; Sanitary  
Towels, 1/3 and 2/3 per dozen.

*All Goods sent carriage paid immediately on receipt of remittance.  
Ladies may address privately to the Surgical Nurse.*



HENRY A. MURTON, NEWCASTLE-ON-TYNE.

**AGRICULTURAL AND VETERINARY ARTICLES.**

**Rain-Repelling, Anti-Rolling and Self-Ventilating HAYSTACK AND RICK-COVERS,**  
1/- per Square Yard. Cheaper than Straw-thatching, and can be applied in a few minutes.

**BLACK OR YELLOW TARPAULINS,** for Stacks, Ricks, Carts, Thrashing Machines,  
Sheds, &c., thoroughly tested and guaranteed. Sizes always in Stock.

Sizes sq. ft.  $6 \times 5\frac{1}{2}$ ,  $7\frac{1}{2} \times 6$ ,  $9 \times 7\frac{1}{2}$ ,  $9 \times 9$ ,  $10\frac{1}{2} \times 9$ ,  $12 \times 9$ ,  $12 \times 12$ ,  $15 \times 12$ ,  $15 \times 15$ ,  $18 \times 15$ ,  $21 \times 15$ ,  $18 \times 18$ .

Prices. 7/6 10/- 15/- 18/- 21/- 24/- 32/- 40/- 50/- 60/- 70/- 72/-

**CART AND WAGGON COVERS, TARPAULINS, White or Tan WATERPROOF SHEETING,**  
2/-, 2/6, 3/- and 3/6, per Square Yard, made up any size.

**HORSE QUARTER SHEETS, Black Oil-proof Lined, White Proof Wigan, also Drab, Navy, Brown, Green for Carriage Horses, to match Colours of Carriage and Rugs.**

*Every Kind and Size in Stock.*

**DRIVING APRONS,** from 8/6 each, Useful and Strong, up to 63/-, being Handsome Bound Leather and Wool Lined, &c., in Box Cloths, &c.

Horse Shoe Pads for tender feet, and to prevent slipping in Frost, &c. Horse Singeing Lamps and Rubber Tube and Fittings.

**SELF-SUPPLYING WATER BRUSHES,** for Washing Horses, Carriages, &c.  
*(As used in the Royal Stables.)*

**RUBBER HOSE PIPE AND CANVAS HOSE,** all sizes, 4d., 5d., 6d. and 8d. per foot.  
Brass Fittings, Couplings, Nozzles, &c.

Horse Stockings, Knee Caps, Brush, Ring, Over-reach and Speedy Cut Boots, Brake Blocks.

**RUBBER MATS, FOR GIGS, CARRIAGES, ENTRANCE DOORS, &c. STABLE AND LAWN BOOTS, DOG AND SHEEP STOCKINGS AND BOOTS, CATTLE ENEMAS AND PROBES, LAMBS AND CALVES TEATS, &c.**

**ROOFING AND OTHER FELTS.**

**GENERAL RUBBER GOODS:—**  
87 to 109, GREY ST.

**DOMESTICS & WATERPROOFS:—**  
20, MARKET ST.

**SURGICAL & VETERINARY:—**  
22, MARKET ST.

**LADIES' SPECIAL DEPT.:—**  
24, MARKET ST.

**ANGLING, SPORTS & PASTIMES:—**  
109, GREY ST.

**Newcastle-on-Tyne.**

TELEGRAMS:—"TOLLEYBANK, LONDON."

**J. & W. TOLLEY,**

GUN AND RIFLE MANUFACTURERS,

**1, CONDUIT STREET, LONDON, W.,**Manufactory:—**PIONEER WORKS,  
BIRMINGHAM.****SELF-EJECTOR GUNS.***The Times* says:—"A perfect Ejector Gun."

Cash Prices ... ..	25 to 47 Guineas.
Non-Ejector Hammerless ...	15 " 35 "
Hammer Guns ... ..	10 " 35 "
Keepers' Guns ... ..	£6 6s., £8 8s., £10 10s.

We have a 40 yards Shooting Range on the premises where guns may be tried before purchase. Gentlemen carefully fitted by the **Adjustable Try Gun** (which can be altered to any shape and fired), at our private shooting range.

**LONG RANGE  
WILDFOWL GUNS.**

Guaranteed Performance

OF

10-BORE at 100 Yards.

8 " " 120 "
4 " " 150 "
10-BORE ... .. from 10 Guineas.
8 " ... .. 13 "
4 " ... .. 18 "



From "WILDFOWLER" of the Field.

"I have never seen in the course of my shooting career a more powerful Gun than the 10-bore central fire you have made for me for wildfowl shooting.

"It is very little heavier than an ordinary gun, it is quite as easy to handle, its finish and make are perfect, and certainly in point of actual work, I will say, emphatically, that it leaves far behind all the guns I have yet handled myself, or seen handled by others."

From J. P. GARNETT, Esq., Willington Manor, Bedford.

"I have given the 10-bore Double a good trial, both at ducks and plover, and like it immensely. I have shot plover at 120 yards with it, firing into a flock."

From *The Field*, August 26.

"SHOOTING WITH 8-BORE GUN.

"Sir,—As the wildfowl season is fast approaching, I send you results obtained from a new double 8-bore, built for me by Messrs. Tolley, thinking they might interest some of your readers.

"Six shots at single birds, 115 yards distant, killed second, fourth and fifth shot; the fourth flew away for about thirty yards, and then dropped dead. One shot at six pigeons 157 yards distant, killed two. One shot at thirteen rooks, 141 yards distant, killed four and wounded another. One shot at about 30 plovers, 147 yards distant, killed six and wounded two others, which we afterwards bagged."

"HAMMERLESS."

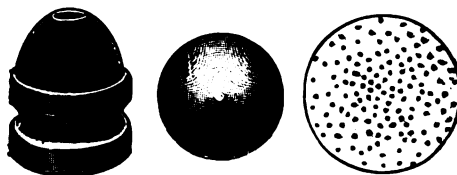
From SIR R. PAYNE GALLWEY, Bart.

"I used your 4-bore for the first time the other day in Ireland, and got in one shot seven widgeon, four teal, and two curlew. I consider it invaluable."

**It is a Special Feature of these Guns that they are Handy, enabling them to be used by the average Sportsman with comfort and success.**

**NEW B.L. PUNT GUN.****"UBIQUE"****BALL AND SHOT GUN.**

AN INDISPENSABLE GUN FOR INDIA AND THE COLONIES.



A 12-bore Double Gun of the ordinary weight (about 7 lbs.) firing from both barrels—shot with the pattern and penetration of a first-class shot gun, and hollow-fronted, solid or steel-tipped, conical, bullets up to 150 yards with the accuracy of an Express rifle; also spherical bullets with large powder charge for great shock. Prices from **£15 15s.**; also made in 16, 10, 8 and 4-bores.

An 8-bore "Ubique" (firing 10 drms.) or a 10-bore (firing 8 drms.) and an Express Double rifle makes a useful and inexpensive battery for sport in any part of the world.

**EXPRESS RIFLES,**

·400, ·450, ·500, and ·577 Bores.

SEMI-SMOOTH BORE RIFLING.

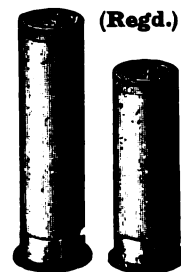
Accuracy, flatness of trajectory, and smashing power highest standard. **Prices from 20 Guineas.**

**"MAGNUM" EXPRESS RIFLES.**

"Magnum," ·577-bore firing 6½ drams and 648 grain bullet, as recommended by Sir Samuel Baker in his book "Wild Beasts and their Ways."

**BIG GAME RIFLES,**

12, 10, 8 and 4 Bores.

**"ALTRO"****12-BORE  
GAME AND  
WILDFOWL  
GUN.**

3-in. Case. 2½-in. Case.

A Double 12-bore Gun, bored to take long or short Cartridges in both barrels, and firing a charge of from 3 to 4 drams powder, and from 1-oz. to 1½-oz. shot—thus making this Gun equally useful for ordinary game as well as wildfowl shooting.

Prices from 13 Guineas.

**SHOT CARTRIDGES.**

See New Price List.



# THE "HARDY" GOLD MEDAL RODS.

Cane Built Steel Centre, Cane Built, Greenheart, &c.

**HIGHEST AWARDS. 31 Gold and other Medals and AWARDS!!!**

## MAKERS FOR ALL LEADING AUTHORITIES, AND ONLY MAKERS OF

The Special Pattern Salmon and Trout Rods, which bear the name and approval of the following gentlemen:—Mr. PENNELL, Mr. MARSTON ("Fishing Gazette"), Mr. KELSON ("Land and Water"), Mr. SENIOR ("The Field"), Mr. HALL, MAJOR TURLE, "Hi-REGAN," and many others; also the Special "Alnwick" and "Hotspur" Greenheart Rods.

**H.R.H. Prince Albert Victor**—"Expresses his complete satisfaction with the Cane-built Steel Centre Rod."

**H. C. Pannell, Esq.**, says—"I can make better casting with this rod than any I ever used."

**Major Turle** says—"The Split Cane Rod you made me is far superior to any American or other English Rod."

**R. B. Marston, Esq.**, says—"Editor, 'Fishing Gazette' "I like the Split Cane Rod better than any I have handled."

**G. M. Kelson, Esq.**, says—"Ang. Editor, 'Land and Water'." "The 18 ft. Built Cane Rod gives complete satisfaction."

**The "Field"** says—"Hardy's Split Cane Rods are wonderfully cheap, and should out all others out."

**"Land and Water"** says—"Hardy's Rods are beautifully balanced, a treat to handle, and extremely cheap."

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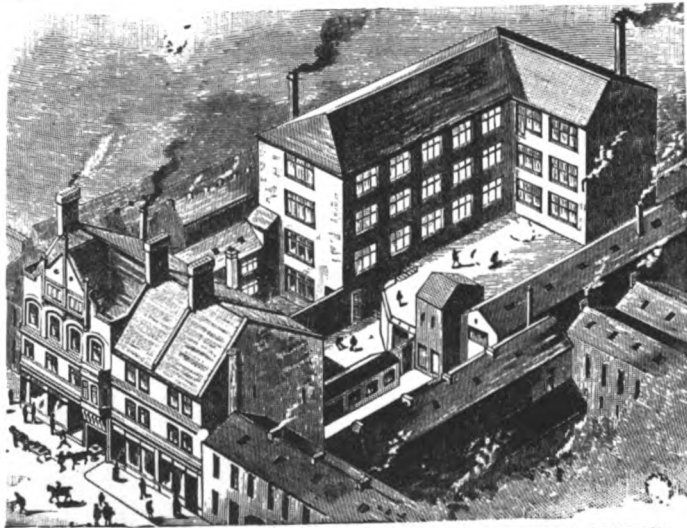
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" 2	5	2½	2	1s 6d	4½d	" 5	11	6½	4	4s 0d	1s 8d
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" B	8½	...	8	...	8	2s 0d	...	7½d	" E	18½	...	4½	...	4½	3s 9d	...	1s 4½d
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" 6	16	8	4½	5s 8d	2s 0d	"	8 Brace Grouse		
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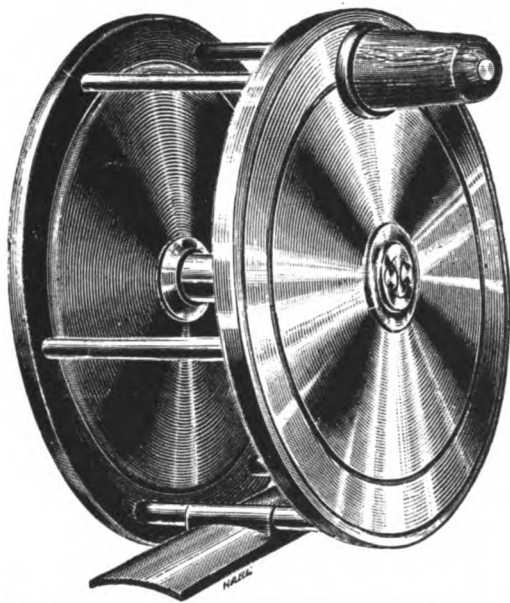
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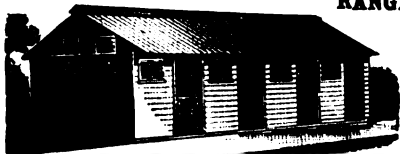
Veterinary Preparations.

As the contents of this Section depends entirely upon Manufacturers subscribing for space, it is necessarily not so complete as we hope to make it when the Book becomes thoroughly established. The Directory contains the names and addresses of many firms who supply requisites under this Section, but whose goods are not fully described.

### NOTE.

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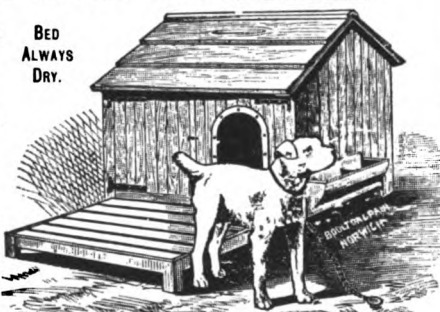
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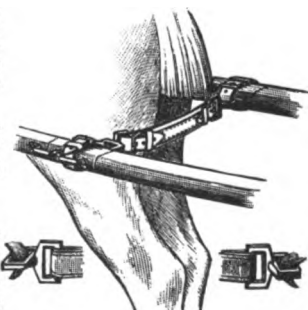
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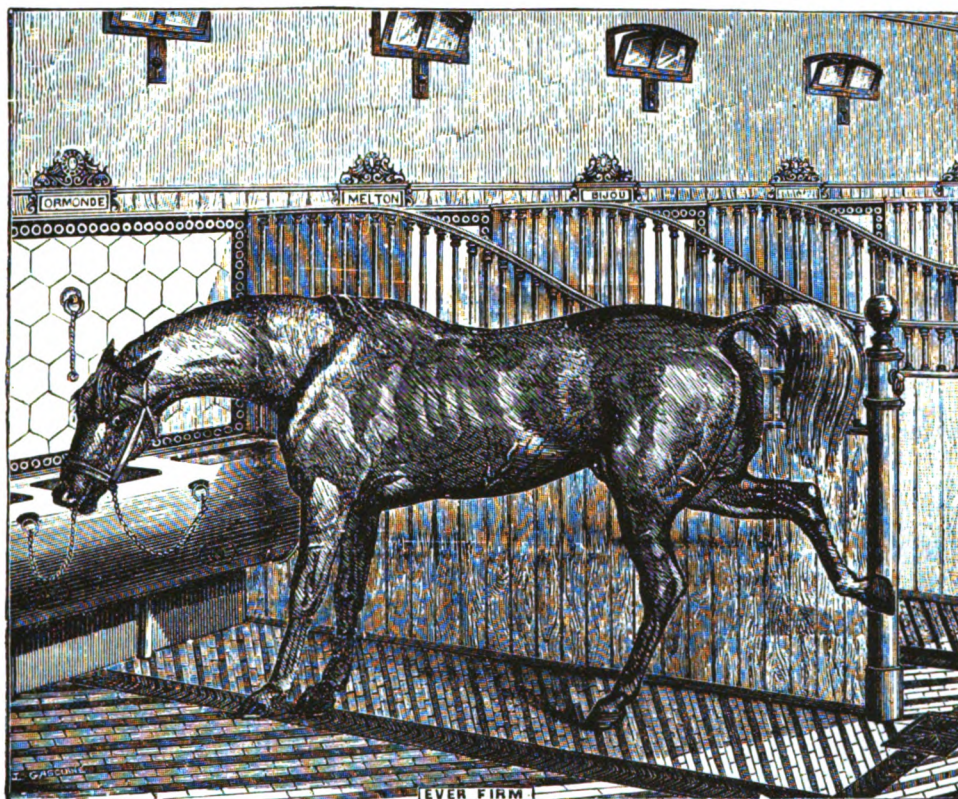
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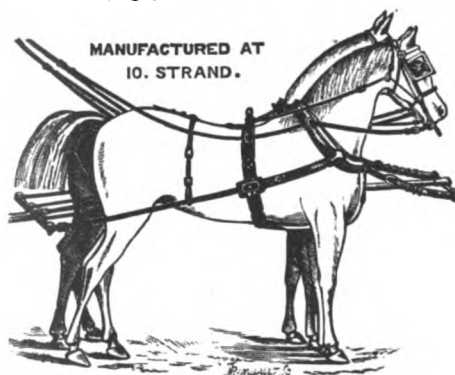


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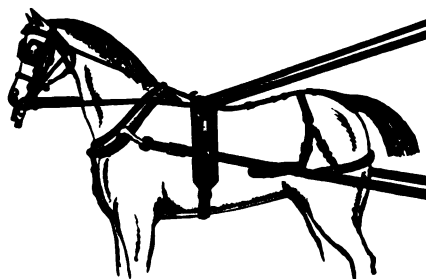
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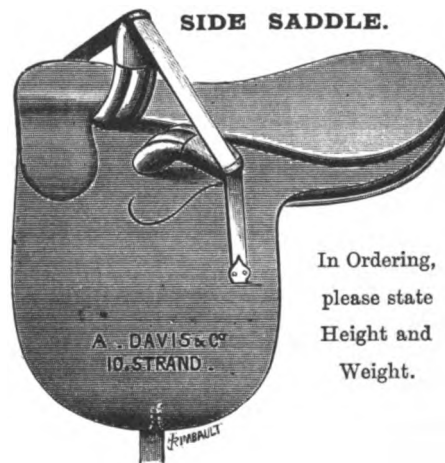
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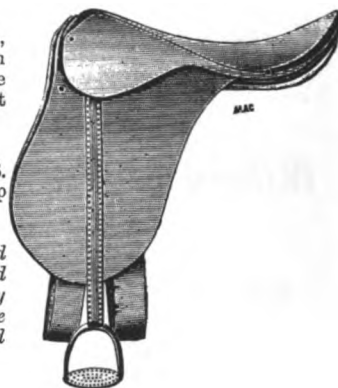
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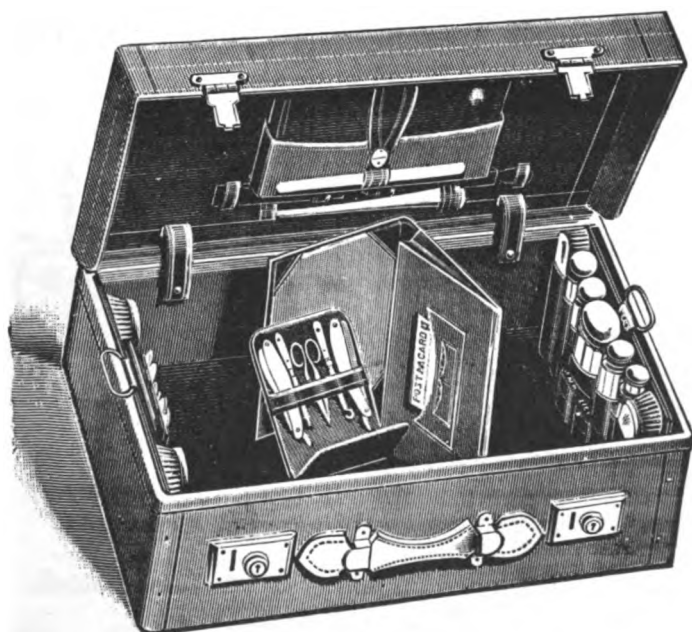
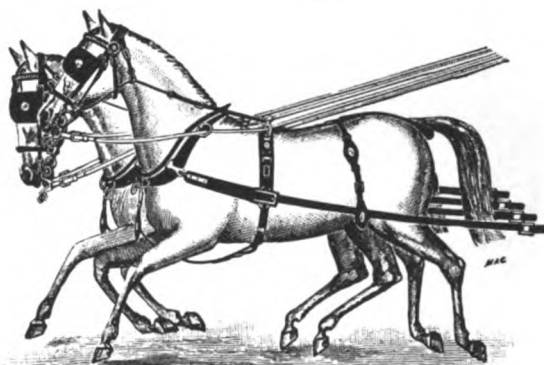
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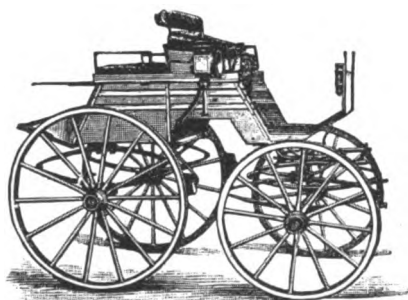
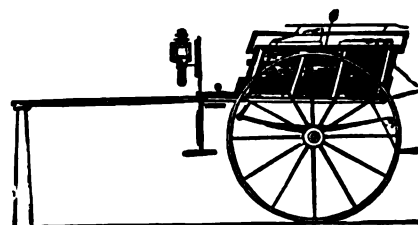
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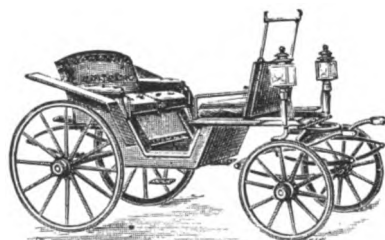
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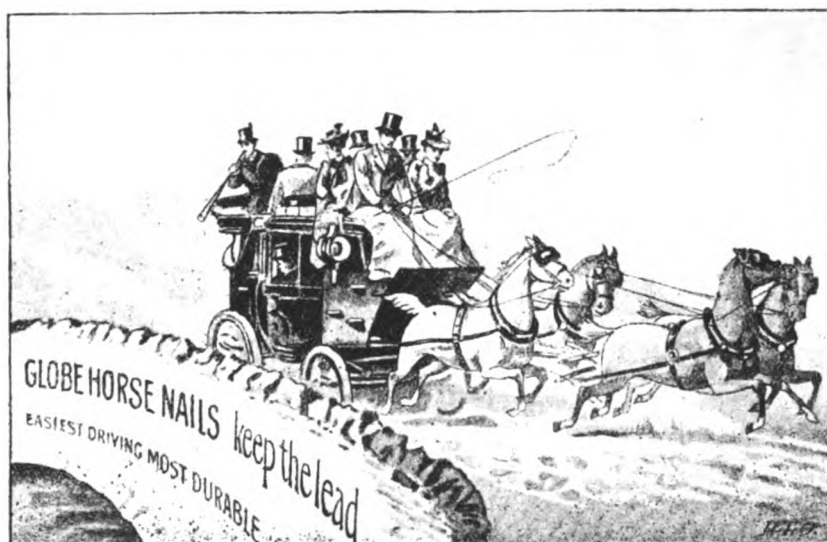


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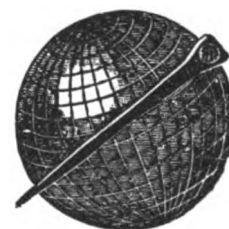
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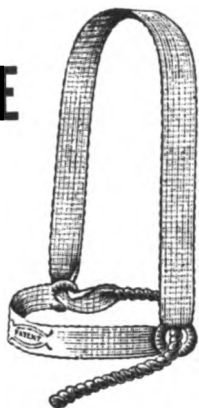


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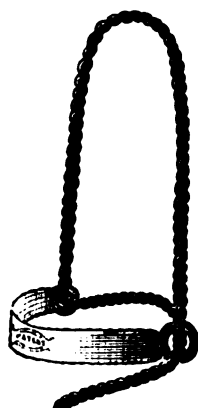
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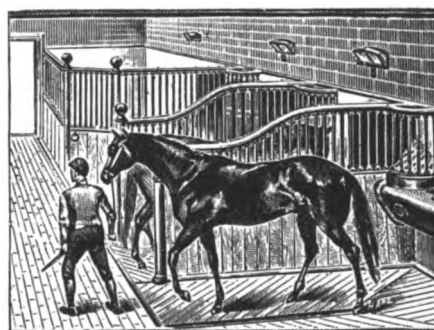
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FROM THE MASTER OF THE "WARWICKSHIRE" HOUNDS,  
KINETON HOUSE, WARWICK, August 14th, 1893.

SIR,  
I have great pleasure in giving you a Testimonial for your Ointment. It has been used in my Stables with success.  
I remain, yours faithfully, WILLOUGHBY DE BROKE.

Mr. MIGHALL—DEAR SIR, UPTON HOUSE, BANBURY.  
We have found the Ointment very good for Thrush, and Cracked Heels.  
Yours faithfully, W. H. P. JENKINS.

DEAR SIR, "THE STABLES," BELMONT, EAST BARNET.  
I have great pleasure in testifying to the good qualities of your "Cure." I have given it a good trial with horses for Thrush and Cracked Heels, and am pleased to say it is an excellent preparation.  
Yours truly, RALPH LETTS,  
Stud Groom to C. A. HANBURY, Esq.

DEAR Mr. MIGHALL, EASTON LODGE, DUNMOW, June 1st, 1893.  
I have great pleasure in giving you a Testimonial for your Heel Ointment. I have used it in Lady Brooke's Stables now for two years, and have never found it fail in Cracked Heels, and have used it with good effect on Sore Backs.  
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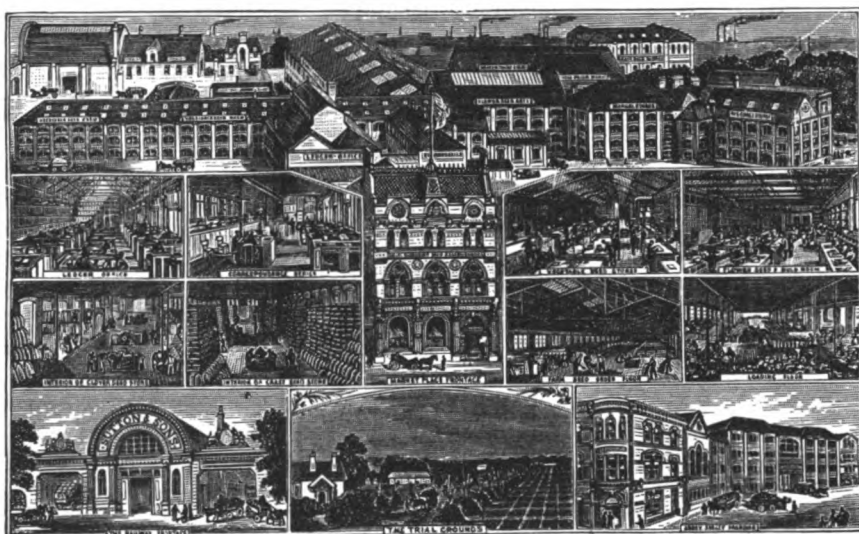
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As the contents of this Section depends entirely upon Manufacturers subscribing for space, it is necessarily not so complete as we hope to make it when the Book becomes thoroughly established. The Directory contains the names and addresses of many firms who supply requisites under this Section, but whose goods are not fully described.

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**The Leading Illustrated Agricultural Paper.**

ESTABLISHED, MARCH, 1893

**EDITED BY THE EARL OF WINCHILSEA.**

**THURSDAY—ONE PENNY.**

THE CABLE, as is implied by its motto, "a three-fold cord is not quickly broken," is the organ of all three classes of agriculturists—Landowners, Farmers, and Labourers. Established in March, 1893, by Lord Winchilsea with the object of rousing agriculturists to unite for the defence of their common interests, THE CABLE at once took up a leading position, which has been strengthened by every succeeding issue.

It is recognised on all hands to be an entirely new departure in agricultural journalism, not only from its fearless advocacy of Agricultural Reforms, but for its sound, practical advice on farming matters, and for the bright home side which it presents to the family circle.

Lord Winchilsea has spared neither trouble nor expense to establish a journal which shall enter the homes of Rural England every week as a welcome friend.

#### PRESS OPINIONS.

*The Field*, in reviewing the first number, wrote:—"No penny journal that we have ever seen, agricultural or otherwise, bears such a handsome appearance. Nothing that good paper, fine type, and copious illustration can do to win a circulation has been scanted."

*The Daily Telegraph* described the paper as "vigorously written and well illustrated."

*The Morning Post* considered "The number well 'made up.'"

*The Evening News and Post* said "It is a very readable and well-printed publication."

*Lloyds' Weekly News* remarked:—"The newspaper is bright and cheerful, and has an opportunity of doing great good in the country."



While aiming at the formation of a strong Agricultural Party in Parliament, THE CABLE seeks to inculcate a spirit of sympathy between class and class, believing that the lot of agriculturists may be raised as much by mutual concessions as by the lever of legislation, and a few, out of many hundreds of, congratulatory messages which THE CABLE has received from its commencement, and which we publish below, will shew how heartily an organ with such a name has been received by the agricultural world.

#### A FEW PRIVATE OPINIONS.

THE MARQUIS OF SALISBURY, K.G., in the course of an interview, described THE CABLE as a capital paper, and asked how it was possible to produce it at a penny?

The Right Hon. HENRY CHAPLIN, M.P. (late Minister of Agriculture), said:—"I always read THE CABLE, and here is a copy of it on my table."

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#### WHAT OUR ADVERTISERS SAY.

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Terms for Advertisements in THE CABLE will be found in another part of this book, but all business men connected with the land, manufacturers of agricultural requirements—in short, all who have anything to announce to landowners, farmers, or labourers, are requested to write to the Publisher of THE CABLE, 30, FLEET STREET, LONDON, when further evidence of its value as an advertising medium will be given, and any other help afforded.

Please note that all matter intended for the current issue should reach THE CABLE Office by mid-day, Wednesday.

**30, FLEET STREET, LONDON, E.C.**

## FARM CROPS.

*The following Notes are reprinted by permission from Mr. Primrose McConnell's "Agricultural Note Book."*

### WHEAT.

Quantity of seed per acre—1 to 3 bushels in Mid-lands—the lesser quantity if put in in October—drilled 6 to 9 inches apart, and  $1\frac{1}{2}$  to  $1\frac{3}{4}$  in. deep.

Weight per imperial bushel—60 to 65 lbs.

Average produce per acre—30 bushels.

Average produce of straw per acre—30 to 33 cwt.

Suited to the stiffer soils, after clover, beans, tares, or fallow; alternates with beans on the heaviest soils. Browick, Spalding, or Scholey best for cold, stiff, wet soils.

Direction to set stooks.—From north-east to south-west to get the sun at both sides, and also to suit the direction of the wind for drying.

### BARLEY.

Quantity of seed per acre— $2\frac{1}{2}$  to 4 bushels; if drilled 6 to 9 inches apart, 2 bushels. Sow in March.

Weight per bushel—55 lbs.

Average produce per acre—35 to 45 bushels.

Average produce of straw per acre—13 to 20 cwt.

Suited to light and calcareous soils, after green crop; shallow and weak-rooted of itself.

### OATS.

Quantity of seed per acre— $2\frac{1}{2}$  drilled to 5 bushels broadcasted; occasionally 6 bushels for long oats.

Weight per bushel—42 lbs.; ranges from 35 to 48 lbs.

Average produce per acre—40 to 70 bushels.

Average produce of straw per acre—25 to 40 cwt.

Oats suit all soils; replace wheat in the rotation. Usually the first cereal grown in reclaiming moors and bogs. A cool, moist climate most favourable. Must be cut before ripe, as grain sheds easily. Thick husk. Chief albuminoid in grain is oatlegumine or *avenine*.

### RYE.

Quantity of seed per acre—2 bushels drilled to 4 bushels broadcasted. Sown in autumn for soiling.

Weight per bushel—54 lbs.

Average produce per acre—25 to 30 bushels.

Average produce of straw per acre—35 to 40 cwt.

Suits light, poor soils up to 80 % of sand, and will grow up to 1,200 feet above sea level. Often grown on mossy land where oats would lodge. Must be cut immediately after it shoots for soiling. Straw tough and wiry, making best thatch and litter.

### RYE-GRASS.

Three species are cultivated:—

1. *Lolium Italicum*—Italian rye-grass.

2. *L. annuum*—Annual rye-grass.

3. *L. perenne*—Perennial rye-grass.

The Italian differs from the perennial in its growing more in tufts, having awns on the glumes, and yielding a larger produce under cultivation. It usually, however, dies out in two or three years, and is thus unsuitable for permanent pasture, though if highly manured it will crop for a long time.

During the last few years the vitality of Perennial Rye-grass has been much called in question, and a controversy has been carried on respecting this point. The bulk of the evidence goes to prove, however, that it is a desirable component of all permanent mixtures on account of its hardiness and bulky yield. An examination of old pastures has shown that they are largely composed of this grass along with white clover.

Quantity of seed per acre—2 bushels when sown alone, but under 1 bushel if sown with other grasses and clovers.

Weight per bushel—Italian, 18 to 21 lbs.; Annual, 22 lbs.; Perennial, 24 to 28 lbs.

Average produce per acre—30 bushels.

Average produce of hay per acre—20 to 30 cwt.

Suited to all kinds of soils; will stand heavy manuring, as can be cut often, so that it is adapted for sewage meadows; a moist climate, also, is desirable.



## LIST OF THE PRINCIPAL GRASSES, CLOVERS, ETC.

A=Annual; P=Perennial; B=Biennial.

Botanical Name.	English Name.	Altitude : North of England.	Weight of Seed per Bush.	Percentage of Germination.	Number of Seeds in 1 Lb.	Week of the Month when Flowers.	Duration.
		Feet.	Lbs.		About.		
<i>Alopecurus pratensis</i> ..	Meadow Foxtail ..	Up to 2,000	12	75	592,100	May 1	P
<i>Anthroxanthum odoratum</i>	Sweet Vernal ..	„ 3,400	12	65	798,500	„ 1	P
<i>Avena elatior</i> ..	Tall Oat Grass ..	„ 1,500	12	85	150,000	June 3	P
<i>Avena flavescens</i> ..	Golden Oat Grass ..	„ 1,600	9	60	1,660,900	July 3	P
<i>Cynosurus cristatus</i> ..	Crested Dogtail ..	„ 1,800	36	95	842,100	„ 3	P
<i>Dactylis glomerata</i> ..	Cocksfoot ..	„ 1,600	20	96	493,800	June 3	P
<i>Festuca duriuscula</i> ..	Hard Fescue ..	„ 2,700	22	90	628,700	„ 3	P
<i>Festuca elatior</i> ..	Tall Fescue ..	„ 1,300	24	85	264,000	July 1	P
<i>Festuca ovina</i> ..	Sheep's Fescue ..	„ 4,300	27	80	1,618,900	June 3	P
<i>Festuca pratensis</i> ..	Meadow Fescue ..	„ 1,600	28	96	269,900	July 1	P
<i>Lolium Italicum</i> ..	Italian Rye-Grass ..	„ 1,000	21	96	242,000	June 2	B
<i>Lolium perenne</i> ..	Perennial Rye-Grass ..	„ 1,600	28	96	255,100	„ 1	P
<i>Phleum pratense</i> ..	Catstail or Timothy ..	„ 1,400	48	96	1,197,900	July 1	P
<i>Poa nemoralis</i> ..	Wood Meadow Grass ..	„ 1,600	22	75	2,325,600	June 3	P
<i>Poa pratensis</i> ..	Smooth-stalked Meadow Grass ..	„ 2,400	30	75	2,398,100	„ 3	P
<i>Poa trivialis</i> ..	Rough-stalked Meadow Grass ..	„ 2,500	30	95	2,581,900	„ 3	P
<i>Medicago lupulina</i> ..	Trefoil or "Nonsuch" Clover ..	„ 1,000	66	96	271,300	May 3	A
<i>Medicago sativa</i> ..	Lucerne ..	„ 1,000	64	96	205,000	June 3	P
<i>Trifolium hybridum</i> ..	Alsike Clover ..	„ 1,500	66	96	686,800	„ 1	P
<i>Trifolium pratense</i> ..	Red or Broad Clover ..	„ 1,000	65	96	253,900	„ 1	B
<i>Trifolium pratense</i> pe- renne ..	Perennial Red Clover ..	„ 1,500	65	96	226,500	„ 2	P
<i>Trifolium incarnatum</i> ..	Crimson Clover ..	„ 500	65	96	118,400	May 3	A
<i>Trifolium procumbens</i> ..	Yellow Hop Trefoil ..	„ 1,000	66	96	..	June 3	P
<i>Trifolium repens</i> ..	White or Dutch Clover ..	„ 1,500	66	96	652,800	May 3	P
<i>Achillea millefolium</i> ..	Yarrow or Milfoil ..	„ 1,000	34	80	2,976,200	June 4	P
<i>Lotus corniculatus major</i>	Greater Birdsfoot Trefoil	„ 1,500	64	80	363,000	July 4	P
<i>Lotus corniculatus minor</i>	Lesser Birdsfoot Trefoil..	„ 1,500	62	80	..	June 4	P
<i>Petroselinum sativum</i> ..	Sheep's Parsley ..	„ 1,000	42	95	..	July 1	B
<i>Plantago lanceolata</i> ..	Plantain or Rib Grass ..	„ 1,500	52	95	..	June 4	P

## TIMOTHY GRASS, or CATSTAIL.

Distinguished from Foxtail (*Alopecurus pratensis*) by its bulbous roots, and by the possession of firm, compact, largish "heads"; Foxtail having looser and softer florets, with long awns.

Quantity of seed per acre—20 lbs. alone.

Weight per bushel—48 lbs.

Average produce of hay per acre—40 to 80 cwts., green cut.

Especially suited to marly, marshy, and mossy soils, and also to sewage meadows.

Can replace part of the rye-grass in a mixture.

## BEANS.

Quantity of seed per acre—2 to 3 bushels, drilled at 20 to 30 ins. in autumn; and 2 to 4 bushels in spring, as soon as frost leaves.

Weight per bushel—63 to 66 lbs.

Average produce per acre—25 to 40 bushels.

Average produce of straw per acre—25 to 30 cwts.

Suits clay soils, and is a fallow crop for such.

Albuminoid is *legumine*—resembles the caseine of milk.

Alternates with wheat on heaviest soils; or between wheat and oats on some soils.

## PEAS.

Quantity of seed per acre—2 to 3 bushels drilled, 4 to 6 broadcasted; in February or March.

Weight per bushel—63 to 65 lbs.

Average produce per acre—30 to 40 bushels.

Average produce of straw per acre—25 cwts.

Suits calcareous loams and sandy or gravelly soils limed recently, but will also do on clay soils, though it has a shallower root than beans. Best boiling peas grown on soil where lime present, so that liming likely to do good. Must not be manured heavily, as apt to injure flavour.

## CLOVER.

Red Clover is not suitable for permanent pasture, but only for alternate husbandry, while Cow-Grass only yields one crop in a year. White Clover springs naturally on most soils when drained and limed, or phosphates applied.

Scarlet Clover is usually drilled on stubble in autumn for spring forage; 12 to 20 lbs. of seed per acre used. Annual; sown in the South only.

Alsike is suitable for damp land and irrigation; lasts for three years only.

Hop-Trefoil, Small Yellow, and Yellow Suckling are small kinds sometimes included in mixtures; the latter is not desirable, as it is of such a small dwarf habit.

The Birdsfoot Trefoils (*Lotus corniculatus major* and *minor*) are allied to the Clovers; are sometimes added to mixtures in small quantities. Found growing naturally on sandy or loamy land.

Quantity of seed per acre—12 to 20 lbs. when drilled in alone. Usually sown with a cereal crop.

Weight per bushel—64 to 66 lbs.

Seeds in a pound—Red, 249,000; White, 686,000.

Average produce of hay per acre—2 tons. Sometimes yields 1 ton more as second cut.

Clovers generally best suited to stiffer soils and when well rolled, but grow fairly well on a lighter class. Usually precede wheat in clay land rotations. In Northern localities are generally sown in a grass mixture.

Seeds are often "doctored;" light-coloured ones are bleached with sulphur fumes, and dark ones treated with logwood or indigo. Moisten and lay on a sheet of white paper and examine with lens.

Affected with "clover sickness"—the plant dying off if too frequently grown on same land. Several known causes of this are:—A want of free potash in the soil; an attack of "stem eelworms" (*Tylenchus devastatrix*), or of clover mildew (*Peronospora trifoliorum*). Applications of lime, gypsum, magnesia, or potash help the plants. Avoid frequent growth of the crop on the same land.

Clover Dodder (*Cuscuta trifoliū*) is a parasitic plant which twines round the stems, extracts the juices, and kills the crop. Watering with 1 lb. of ferrous sulphate (copperas) to 1 gallon of water kills the dodder and does no harm to the clover; harrowing only spreads it; generally grows in spots only. The seed can be easily dressed out of the clover seed.

## VETCHES OR TARES.

Quantity of seed per acre—3 to 4 bushels. Only occupies land for a short time, and is therefore used as

a catch crop. Sometimes sown in autumn for spring forage; usually mixed with cereals or other seed to act as support. The following mixture is a type of autumn-sown crop:—Winter Tares, 2 bushels; Winter Beans,  $\frac{1}{2}$  bushel; Winter Rye,  $\frac{1}{2}$  bushel; Winter Oats, 1 bushel; total, 4 bushels per acre—sown at successive times.

Weight per bushel—64 lbs.

Seeds in a pound—8,900.

Average produce per acre—25 to 30 bushels.

Average produce of straw per acre—25 cwts.

Suits all soils, and will stand heavy manuring.

Do well on heavy land, and form a good preparation for wheat, as a thick crop will smother weeds out and leave much nitrogen accumulated in the roots.

For summer growth first sowing usually in February.

When vetches are grown for folding or soiling purposes, they should be supplemented with starchy foods, such as rice or maize, as, on account of the high percentage of albuminoids in their composition, the use of such foods as cotton cake might be unprofitable and even dangerous.

#### SAINFOIN.

Quantity of seed per acre—4 bushels of rough seed (in pod), or 50 lbs. milled (clean) seed, drilled or broadcasted. Usually sown down with barley on clean land.

Weight per bushel—28 lbs.

Seeds in a pound (rough)—28,900.

Average produce per acre—30 bushels.

Average produce of hay per acre—40 cwts.

Suits calcareous soils; replaces clover on the Oolite and Chalk Formations, as its deep roots descend into the subsoil and fissures in the rock, and renders it less liable to injury from drought.

It is a perennial plant, and when once started will crop for many years either for forage or hay. It is mixed sometimes with clover on clay soils, and treated in all respects as that plant.

The best hay is made when it is cut before coming into flower.

It is broken up when it gets smothered with grass or weeds. Turnips usually taken after it, as wheat liable to be infested with wireworm.

#### LUCERNE.

Quantity of seed per acre—10 to 20 lbs.; sown in April will afford cutting in following autumn.

Weight per bushel—60 to 62 lbs.

Seeds in a pound—205,000.

Average produce of fodder per acre—20 to 30 tons green; hay, 2 to 3 tons.

Suits deep calcareous loams. Is perennial and deep-rooted, like sainfoin, so can resist drought. Is not suited to a moist climate.

#### LUPINES.

Quantity of seed per acre—1 to 2 bushels, drilled at 15 inches. Sown in May or June.

Weight per bushel—62 lbs.

Average produce per acre—25 bushels.

Average produce of fodder per acre—15 to 20 tons forage.

Suits sandy soils, as it has long tap-roots, and can replace clover on such soils, being an annual; first crop grown in reclaiming them—either ploughing in or folding on sheep, for which kind of stock it is exceedingly suitable. Has been long grown in gardens as a flower, and therefore suits great diversity of climate.

Lupine-seed meal is a desirable ingredient of all milk substitutes for young calves.

#### TURNIPS.

Quantity of seed per acre—Swedes, 3 to 4 lbs.; soft varieties, 4 to 6 lbs., 2 to 4 lbs. when broadcasted.

Period of sowing—Swedes from middle of May to that of June, soft varieties in June. In the North, where there is no mildew, may be a month earlier; single out when 1 inch high in rough leaf.

Weight of seed per bushel—50 lbs.

Number of seeds in 1 lb.—140,000 to 300,000.

Weight of bulbs per bushel—42 to 45 lbs.

Average weight of crop per acre—Whites, 20 to 25 tons; Yellows, 18 to 23 tons; Swedes, 12 to 20 tons. Average of England, 15 tons; Scotland, 18 tons.

Best suited to lighter soils and cool moist climate; therefore do better in Scotland than England. Must be grown on flat, if rainfall of a district under 24 inches per annum. In a dry season are apt to mildew, cured by deep stirring of soil. Are a typical green-crop, coming between two straw crops.

Best width between drills—27 inches, 18 to 20 inches on flat; between the plants—8 to 10 inches.

Number of plants on acre at 27-in. drill, and 9 inches apart in rows=26,000, nearly.

Large individual turnips do not give a heavy crop per acre, or best feeding quality, so that bulbs of medium size are best and there are more of them; therefore they should be left fairly close together—8 to 9 inches—in thinning.

They should be sown early, and thinned as soon as "rough leaves" appear.

A turnip seed weighs about  $\frac{1}{10}$  of a grain, and taking a grown turnip—leaves and bulb—at 6 lbs., we find that in about five months the plant has increased to about 1,000,000 times its original weight, showing the necessity of good tilth and manuring for this plant.

As a rule, the heavier the specific gravity of a turnip, the better its feeding quality; this holds still more true as regards the specific gravity of the expressed juice.

#### CABBAGES.

Quantity of seed per acre—1 to 2 lbs. of seed sown on two square rods of land yield sufficient plants for an acre; sow in August or March six weeks before required to plant out.

Weight of seed per bushel—50 to 56 lbs.

Seeds in a pound—120,000.

Average produce of crop per acre—30 to 40 tons.

Suited to the very stiffest soils, and forms a capital fallow crop for such. Considered by some superior to turnips for feeding purposes. Will stand heavy manuring. Roots should be dipped in puddle of dung-hill when transplanting.

Width between drills not less than 27 inches, and plants same distance apart in rows; at this distance will require 8,600 plants to the acre.

Average weight of a single well-developed specimen—10 to 20 lbs.

Cabbage and Kale may be sown on drills as turnips, with 4 or 5 lbs. of seed per acre, and afterwards thinned out. Kale may be broadcasted in April for sheep-feeding in Autumn.

#### KOHL-RABI.

Quantity of seed per acre—10 to 16 oz. on 6 yds. square, if to be transplanted; 2 to 4 lbs. if drilled in. Sow in March for transplantation in May or June. Grown on the flat.

Weight of seed per bushel—54 to 56 lbs.

Seeds in a pound—131,000.

Average produce of crop per acre—20 to 25 tons.

Suits light or heavy loamy soils in the Southern and Midland districts; unknown in the North. Hardy, though the bulb grows entirely out of ground. Cultivated in much the same way as swedes. Will stand heavy manuring. Very suitable for cows, as does not give a flavour to the milk.

#### RAPE.

Quantity of seed per acre—4 to 5 lbs. in rows 15 inches apart. Sow in breaks any time after June. In August for Spring feed or seeding. 10 to 12 lbs. broadcasted.

Weight of seed per bushel—50 to 55 lbs.

Seeds in a pound—118,000.

Average produce of seed per acre—30 bushels.

Average produce of forage per acre—10 to 15 tons.

Suits alluvial or fen land best, but will do well on other kinds. Is a good forage crop for sheep; often used as a catch crop, as when grown after early potatoes; often ploughed in for green manure.

Rape can be transplanted, or it is sometimes drilled and thinned afterwards, but the usual way is to broadcast or drill in and let it all grow. Sometimes sown along with vetches.

#### MUSTARD.

Quantity of seed per acre—1 peck; sown broadcast in end of April.

Weight of seed per bushel—50 to 56 lbs.

Seeds in a pound—75,000.

Average produce of forage per acre—10 to 15 tons.

Has been until lately a crop peculiar to the richest fen lands, but is now grown extensively for forage.

Usually sown in drills and thinned out when for seeding purposes. Seed is ground down to make ordinary table mustard.

Sometimes ploughed in before wheat, as it is said to be obnoxious to wireworm.

## MANGEL WURZEL.

Quantity of seed per acre—6 to 10 lbs.; sown in April or May. Seed may be steeped in water before sowing; will bear transplantation to fill up gaps.

Weight of seed per bushel—21 to 22 lbs.

Seeds in a pound—24,000.

Weight of roots per bushel—45 lbs.

Average produce of crop per acre—15 to 25 tons.

Mangel suit the stiffer soils and a comparatively dry climate, so that it is a crop which fills in England the place which the turnip does in Scotland. The Orange and Yellow Globes are the most suitable for every variety of soil.

When the seed is dibbled in it must be from  $\frac{1}{2}$  to 1 inch deep, 12 inches apart. When pulled, must be topped only—best by wrenching off tops—and not tailed, so as to minimise bleeding. Very susceptible to injury from frost, must therefore cover with tops before pitting, as the roots are best to lie for some time to wither. Can be pitted in large quantities, and must lie till spring to allow of the elaboration of the juices. When fresh contain acrid substances liable to scour animals. The pectin and pectose of fresh roots become changed into soluble sugar when kept some time.

There are from 3 to 5 seeds in each capsule, and the germination should be at least 120 per cent.

As this plant has been developed from the *Beta maritima* of argillaceous shores, it requires salt as a manure, and from 3 to 10 cwts. per acre are usually applied. Nitrate of soda is also a specific manure, and it gives good results when used as a top-dressing after the plants are singled.

## POTATOES.

Quantity of seed per acre—12 to 15 cwts. of cut sets. Planted in February and March for early crops, and April for later.

Weight per bushel—53 lbs. striked; 56 lbs. heaped.

Average produce of crop per acre—5 to 8 tons; early potatoes, 4 to 6 tons.

Potatoes suit medium loamy soils, but are successfully grown on all kinds, except heavy clays. Are a typical green-crop. Wheat does well after them.

Do well on mossy or newly reclaimed land.

The tubers are sometimes "sprouted" before planting to ensure an earlier crop. Small or medium

size potatoes are selected and placed whole in wooden trays, which are then piled up in byres or other cattle-houses. The eyes sprout out 2 to 4 inches of a tough blue stem, and they are afterwards carefully planted: this sprouting will make the crop ready to raise some three weeks earlier. From 12 to 20 cwts. required per acre for seed.

For ordinary crops medium size potatoes are best seed, and the "rose" end only should be used, as sprouts from the "heels" are weakly. Leave one or two good eyes in each set.

Fibres ramify from the eyes into the substance of the tuber, and towards the point where the root enters at the heel. In cutting the sets, these fibres should be left intact as much as possible, and this may be done by first removing the heel half and throwing aside, and then cutting the remainder *lengthwise* into sets.

Grown on drills or on the "lazy bed" system; the latter suits wet land and corners where horse labour would be awkward, and is equivalent to trenching the land when carried out for three successive years, if the ditches are slightly shifted each year.

## CARROTS.

Quantity of seed per acre—8 to 10 lbs.; sometimes rubbed up with 2 bushels of sand or dry earth to make it sow more easily. May be steeped in water previously to help germination. Sown in end of March or beginning of April. The plants singled out to 3 or 4 inches apart and generally drilled in double rows 27 to 30 inches apart, or single rows 18 inches apart.

Weight of seed per bushel—29 to 34 lbs. with hairs rubbed off; 15 to 18 lbs. in natural state.

Seeds in a pound—250,000 (rough).

Weight of roots per bushel—40 lbs.

Average crop per acre—10 to 20 tons.

Suits light and deep soils; will not do on those of a stiffer nature.

The Carrot is developed from a weed found on sandy soils, and is a biennial plant.

Forms a green-crop suitable to the lightest soils, but very expensive to work.

Carrot leaves are superior to any of the root crops as a food for milk cows.

## PARSNIPS.

Quantity of seed per acre—6 to 1 lbs.; sown in February or March, or in the autumn previous.

Weight of seed per bushel—15 to 18 lbs.

Seeds in a pound—100,000.

Weight of roots per bushel—40 lbs.

Weight of crop per acre—8 to 14 tons.

Suit the same soils as carrots, and much the same style of cultivation.

Frost does no injury to them, as they grow deep in the ground; will keep longer than carrots if left in the ground, as they contain more oil and starch.

The Parsnip is a biennial plant, and has been developed from a weed found growing on chalky soils.

## HOPS.

Propagated by cuttings usually; 3 to each hillock, and hillocks 6 feet apart each way; 3,630 slips to the acre; these previously raised in a nursery. Planted in autumn or early spring; 3 poles allowed to each "hill" for the bines to grow up. Perennial plant, but not much produce first year.

Weight of bushel of commercial hops—36 lbs.

Average produce per acre—Varies from 2 to 25 cwts.; 6½ to 7 cwts. is common.

Suits rich calcareous loams. Land to be well cultivated previously, and while crop is growing; large quantities of the richest manures to be applied to the hills.

Hops require to be hand-picked, and dried in a kiln before marketing; 4 parts by weight in the green state give 1 when dried. When dried are packed in "pockets." A pocket is a sack 7½ ft. long by 3 ft. wide, weighs 5 lbs., and contains 1 cwt. 2 qrs.—say 170 lbs.—of hops.

The hop is a dicecious plant, and a certain proportion of males (usually 1 to 10) have to be planted to fertilize the females.

Poles require to be from 15 to 18 ft. long, and must be lifted always with the bines attached previous to picking. Chestnut wood considered best.

Sixty-five per cent. of the total crop is grown in Kent. It is a very speculative and hazardous branch of farming, as the plants are so liable to injury from weather, insects, and mildew.

## BUCKWHEAT.

Quantity of seed per acre—1 bushel drilled, to 3 broadcasted. Sow late in May when no chance of frost.

Weight of seed per bushel—50 lbs.

Seeds in a pound—25,000.

Average produce of crop per acre—25 to 30 bushels.

Suits poor, light, dry soils. Is a very desirable grain for poultry, and often grown for pheasants. Suits odd corners. Seed does not all ripen at one time; must be cut when greatest quantity is matured.

## LEGUMINOUS FODDER CROP.

(*Wagner's Lathyrus Sylvestris*, or *Flat Pea*.)

It requires 12 lbs. of the Lathyrus Seed to sow one statute acre.

The seed is drilled in the land in rows 12 to 15 inches apart and ½ to ¾ inch deep, in such a way that 4 to 5 seed-corns come to the foot run of drills.

After the sowing the land should be rolled.

The young Lathyrus plants must be kept clean from weeds.

Light, porous soil, with a well-drained subsoil, is best adapted, and such land should be ploughed up preferably in autumn or early winter for March-April sowing, or up to end of March for May sowing.

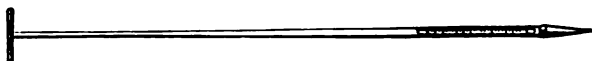
The Lathyrus Seed requires a seed bed with friable mellow soil, and of fine tilth.

Crops average 18 tons an acre, and are highly nitrogenous.



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# MANURES.

## FARM-YARD MANURE.

One ton of farm-yard manure will contain:—

- 9 to 15 lbs. of Nitrogen.  
 9 „ 15 „ „ Potash.  
 4 „ 9 „ „ Phosphoric Acid.

Farm-yard manure in fermenting should not rise above 80° C. (86° F.) in temperature; keep cool with liquid manure. Humic and ulmic acids are formed, which unite with and fix the ammonia and potash. Ferrous sulphate added forms ammoniac sulphate and ferrous carbonate—both plant foods. Gypsum prevents the waste of nitrogen; and kainite, if added, will fix the ammonia.

Manure produced in six months by 50 head of cattle in covered yards:—

Voided by the animals	..	300 tons.
Litter (24 lbs. per head daily)	100 „	nearly.
	400 „	

Averaging 8 tons.

The same stock in open yards will produce:—

Voided by the animals	..	300 tons.
Litter (48 lbs. daily)	..	200 „ nearly.
Rain-water, <i>ad lib.</i>	—	
	500 „	

Averaging 10 tons.

Composition of 1 ton of open yard manure:—

Excrements, liquid and solid, 6 cwt.; litter, 4 cwt.; rainfall, 10 cwt.

A farm should manure itself once in 4 years at rate of 16 tons per acre.

A cubic yard of farm yard manure in the heap weighs from 12 to 16 cwt.

MINIMUM Amount of Farm-yard Manure required to replace the Ingredients abstracted from the Soil by an Acre of each Crop:—

	Tons.		Tons.
Wheat .. ..	5	Turnips .. ..	15
Barley .. ..	5	Swedes .. ..	10
Oats .. ..	5	Mangels .. ..	20
Meadow Hay ..	8	Potatoes .. ..	10
Red Clover ..	12	Cabbages .. ..	25
Beans .. ..	10	Carrots .. ..	10

TABLE of the Estimated Value of the Manure obtained by the consumption of different kinds of Food, each supposed to be good quality of its kind (revised figures):—

Description of Food.	Money Value of Manure from One Ton of each Food.	
	LAWES.	VOELCKER.
	£ s. d.	£ s. d.
Cottonseed-cake, decorticated ..	5 18 0	5 6 6
Rape-cake .. ..	4 5 4	4 0 9
Linseed-cake .. ..	3 18 6	3 15 8
Cottonseed-cake, undecorticated	3 5 4	..
Lentils .. ..	3 1 4	3 2 0
Beans .. ..	3 3 5	3 2 0
Tares .. ..	3 2 1	..
Linseed .. ..	2 19 5	2 17 9
Peas .. ..	2 15 0	3 2 0
Palmnut meal .. ..	1 19 10	1 14 0
Indian meal (Maize) .. ..	1 5 1	1 5 0
Locust beans .. ..	1 7 10	0 18 3
Malt coombs .. ..	3 10 9	3 11 0
Bran .. ..	2 18 5	2 15 0
Coarse pollard .. ..	2 17 9	..
Fine pollard .. ..	2 13 4	..
Oats .. ..	1 9 10	..
Wheat .. ..	1 8 7	1 7 0
Malt .. ..	1 6 8	1 6 0
Barley .. ..	1 6 1	1 5 0
Rice meal .. ..	..	0 15 0
Brewers' grains .. ..	..	0 12 0
Clover hay .. ..	2 1 3	..
Meadow hay .. ..	1 8 7	..
Bean straw .. ..	0 17 7	..
Pea straw .. ..	0 18 10	..
Oat straw .. ..	0 11 7	..
Wheat straw .. ..	0 10 1	..
Barley straw .. ..	0 10 1	..
Potatoes .. ..	0 6 5	..
Parsnips .. ..	0 5 5	..
Mangel wurzel .. ..	0 5 0	..
Swedish turnips .. ..	0 4 7	..
Yellow turnips .. ..	0 3 11	..
White turnips .. ..	0 4 0	..
Carrots .. ..	0 4 8	..

In the above table Sir John Lawes and Dr. Gilbert value ammonia at 6d. per lb., phosphoric acid at 3d., and potash at 2½d.; while Dr. Voelcker valued ammonia at 6d., insoluble phosphate at 1½d., and potash at 1½d.

## GUANO.

In a nitrogenous guano the nitrogen is chiefly present as uric acid and ammonium salts. The strong smell of a damp-guano is due to ammoniac carbonate. Phosphoric acid exists as calcic phosphate, and some of it as ammoniac phosphate (very soluble). *Guanine* ( $C_5H_5ON_5$ ) also exists. Unwashed guano may contain 3 to 4 % of potash (alkaline salt). There is less than 1 % of nitrates present. A high-class guano should contain from 8 to 12 % of nitrogen, while those with less than 4 to 5 % are reckoned low-class, or "phosphatic." Some varieties, such as Mejillones, are purely phosphatic material, having had all the nitrogen leached out by the filtration of water where they have accumulated in a rainy climate. The very highest class guanos are not now imported, the supply being exhausted.

Guanos are suitable for general application, while they are the best nitrogenous manure for clayey soils.

## TESTING GUANO.

1. *Colour* should be that of coffee and milk; if too grey it is earthy; if too brown it contains too much water.
2. *Taste*, strong—salt, piquant, caustic.
3. Smells of ammonia; varies with the dryness or dampness.
4. *Consistency*: oily to the touch; in small grains, though sometimes adhering in large pieces; if rich in urates, will appear shining and crystallised when broken across.
5. *Flame*: will blaze up quickly if good, and leave residue of charcoal ashes. There is less charcoal in guanos poor in organic matter.
6. Mixed with *quicklime* ought to give strong evolution of ammonia.
7. Weighs about 60 to 70 lbs. per bushel.

## BONES.

As the fat contained in bones interferes to a great extent with their manurial value, a certain amount of boiling is beneficial in removing it; but as the nitrogen is principally contained in the ossein, or gelatinous matter, and as this is extracted by continuous boiling or steaming, the operation must not be carried on too far. Steamed bones, or those boiled under pressure, are little better than bone ash.

Bones contain from 50 to 80 % of mineral matter or ash, chiefly tricalcic phosphate ( $Ca_3 2 PO_4$ ).

Fermented bones are made by mixing with one-third their weight of earth or clay, and keeping saturated with urine.

Vitriolated bones are those which have been moistened (in the meal form) with sulphuric acid, and allowed to ferment in a heap for a long time, and are thus equivalent to a mixture of bone meal and bone superphosphate.

Bone manures act best on light, free-working soils, and decompose very slowly on heavy land.

## BASIC SLAG.

Basic slag owes its value to the presence of about 16 to 18 % of phosphoric acid combined with lime to form a tetracalcic phosphate, having the composition  $Ca_4 P_2 O_8$  ( $= 4 Ca O \cdot P_2 O_5$ ). This is an unstable compound (having been formed in the furnace at a high temperature), is easily decomposed when put in the soil, and is practically as good as the monocalcic phosphate if reduced to a fine enough powder. It is at present the cheapest source of phosphoric acid, but of course only those slags derived from iron ore rich in phosphorus are suitable for its manufacture.

Mineral phosphates should be ground as finely as possible, and 80 to 85 % should pass a sieve of 10,000 meshes to the square inch.

## "SUPERPHOSPHATE OF LIME."

Made by adding sulphuric acid to steamed bone, bone ash, or phosphates ( $Ca_3 2 PO_4$ ).

Superphosphate is rarely made from raw bones, as the organic matter interferes with the action of the acid and the after usefulness of the manure; but bone ash, steamed bones, and phosphatic minerals are largely used.

The great bulk is at present derived from mineral phosphates or coprolites; high-class samples should contain 30 to 40 % of tricalcic phosphate "rendered soluble" (equivalent to from 22.6 to 30.1 % of "actually soluble," i.e.,  $Ca H_4 2 PO_4$ ); low-class samples may contain under 23 % "rendered soluble" (i.e., 17.3 of  $Ca H_4 2 PO_4$ ). Superphosphate of bones is known as "dissolved bones," but the dissolved bones of commerce are often made from bone ash and mineral phosphates "fortified" with some nitrogenous material.

## COMPOSITION OF MANURES.

MANURES.	Water.	Organic Matter.	Nitrogen.	Phosphoric Acid.	Potash.	Lime.	Silica.	Magnesia.	Ferric Oxide and Alumina.
Guano—Baker Island .. .. .	11.0	7.0	0.5	34.8	0.1	40.0	0.6	..	..
Do. Bats .. .. .	10.5	9.2	0.3	17.4	2.3	29.4	15.8	..	..
Do. Curacao .. .. .	8.7	5.8	..	33.5	0.5	43.0	0.3	..	..
Do. Guanape Island .. .. .	21.6	36.3	9.3	13.4	3.7	11.3	6.3	..	..
Do. Huanillos .. .. .	10.0	40.9	8.0	15.0	3.6	14.6	3.8	..	..
Do. Malden Island.. .. .	5.1	6.9	..	35.6	0.2	46.5	0.1	..	..
Do. Mejillones .. .. .	7.3	6.9	0.9	32.9	1.5	36.7	2.2	..	..
Do. Peruvian .. .. .	15.0	42.0	7.0	14.0	3.3	12.6	3.9	..	..
Do. Raza Island .. .. .	3.3	11.2	0.8	36.5	1.1	36.2	4.2	..	..
Do. Starbuck Island .. .. .	5.1	11.7	0.8	37.8	..	41.6	1.3	..	..
Bone Ash .. .. .	6.0	3.0	..	35.4	0.3	46.0	6.5	1.2	..
Do. Dust .. .. .	13.0	23.8	2.6	17.6	0.1	24.4	3.5	1.0	..
Do. Meal (average) .. .. .	6.0	30.3	3.8	23.2	0.2	31.3	3.5	1.0	..
Do. Crushed .. .. .	7.1	36.6	3.7	22.1	0.1	30.2	0.8	1.0	..
Do. Raw .. .. .	6.2	39.1	3.8	22.3	0.2	29.2	0.3	0.3	..
Do. Steamed .. .. .	5.2	17.5	1.6	30.9	0.1	41.8	0.4	1.1	..
Basic Slag (Cinder) .. .. .	3.4	..	..	16.3	..	45.0	7.2	..	24.5
Coprolites, Cambridge .. .. .	3.8	..	..	26.0	..	43.6	7.7	..	18.7
Phosphates, Bordeaux .. .. .	4.8	..	..	35.5	..	47.8	2.3	..	2.8
Do. Estramadura .. .. .	3.6	..	..	33.4	..	47.1	3.7	..	3.5
Superphosphate—Made from Peruvian Guano (dissolved) .. .. .	16.0	30.0	7.0	10.5	Calcic Sulphate. 24.5	..	1.5	..	..
Do. Bone Ash .. .. .	15.0	7.0	0.5	16.0	37.4	..	9.3	..	..
Do. Bone Meal (dissolved) .. .. .	13.0	24.0	2.5	16.7	29.7	..	2.5	..	..
Do. Cambridge Coprolites .. .. .	14.1	12.1	..	15.7	44.2	..	4.2	..	..
Kainite, prepared .. .. .	20.8	Sulphuric Acid. 36.6	..	..	Potash. 16.9	22.2	..	18.5	Chlorine & Fluorine. 12.9
Do. common .. .. .	12.8	..	..	..	13.8	1.1	..	10.1	28.8
Ammonia, sulphate .. .. .	4.0	..	20.0	..	..	0.5	3.0	..	..
Nitrate of Soda .. .. .	1.9	..	15.6	..	..	0.2	0.5	..	..
Coal Ash .. .. .	..	..	..	0.2	0.2	3.5	72.0	0.8	..
Gas Lime.. .. .	7.0	Organic Matter. 1.3	0.4	..	0.2	64.5	3.0	1.5	..
Gypsum .. .. .	20.0	..	..	..	..	31.0	4.5	0.1	..
Soot, wood .. .. .	5.0	71.8	1.3	0.4	0.1	4.0	..	1.5	..
Do. coal .. .. .	6.1	70.4	3.6	..	..	3.9	12.4	..	..
Farm-yard Manure (fresh, with straw), Cow .. .. .	77.5	20.3	0.34	0.16	0.40	0.31	0.85	..	..
Do. do. do. Horse .. .. .	71.3	25.4	0.58	0.28	0.53	0.21	1.77	..	..
Do. do. do. Pig .. .. .	72.4	25.0	0.45	0.19	0.60	0.08	1.08	..	..
Do. do. do. Sheep .. .. .	64.6	31.8	0.83	0.23	0.67	0.33	1.47	..	..
Do. do. mixed, fresh .. .. .	75.0	21.2	0.39	0.18	0.45	0.49	1.08	..	..
Do. do. do. rotted .. .. .	75.0	19.2	0.50	0.26	0.63	0.70	1.68	..	..
Liquid Manure (Drainings) .. .. .	98.2	0.7	0.15	0.01	0.49	0.03	0.02	..	..
Peat Moss Manure .. .. .	70.9	25.5	0.56	0.40	0.54	0.61	1.69	..	..

## SULPHATE OF AMMONIA.

The ammonia in chemically pure *ammonic sulphate* contains 21.21 % of nitrogen. The commercial salt, however, contains only about 93 % pure sulphate, yielding at most 20 % of nitrogen, equivalent to about 24 % of ammonia.

This is a good nitrogenous manure for corn crops, especially in wet seasons or in wet districts, but it is best used in conjunction with superphosphate. It is not so soluble as nitrate of soda, and should be sown along with the seed, so as to give the ammonia time to be oxidised into nitric acid—the form in which plants take up their nitrogen. It improves the quality as well as the quantity of grass crops.

## NITRATE OF SODA.

*Nitrate of soda* should contain 95 % of the pure salt, equivalent to about 19 % of ammonia. It is well adapted for corn crops and for grass, and gives the most lasting results on clayey land, as it is perfectly soluble, and is feebly retained by the soil. Should be applied as a top-dressing to the braird, and not sown with the seed. If applied frequently without other manure it will "exhaust" the land. It may be mixed with slag or bone manures, but not with superphosphates.

## KAINITE.

The most important of the potash salts is *kainite*, of which the following table gives a detailed analysis of the form in which it is usually met with in the market:—

Water ... ..	8.4
Water of combination ... ..	10.9
Potassic sulphate ... ..	24.4
Sodic chloride (common salt) ... ..	30.4
Magnesian chloride ... ..	14.8
Magnesian sulphate ... ..	13.2
Calcic sulphate ... ..	2.7
Insoluble silica ... ..	0.7

100.0

It is seldom that a potash manure is required by a soil, except when growing potatoes and beans, clover, or other leguminosæ. If, however, a soil contains less than .25 % of potash, or the same of magnesia, an addition of these substances is likely to be beneficial.

## GAS LIME.

*Gas lime* is the spent lime from gasworks which has been used in purifying the gas, especially for the removal

of carbonic acid and sulphuretted hydrogen. When quite fresh it contains a large proportion of the sulphide of lime, which is poisonous to plants, but on exposure to the air this takes up oxygen and changes into the sulphite and then into the sulphate, the latter being a valuable manurial substance.

Gas lime may be put on the land fresh in the autumn, so that it may be oxidised before the crop is sown in spring; and as much as six tons per acre may be thus used, though smaller quantities at short intervals are desirable. Besides its manurial properties it is an insecticide, and will even kill out the weeds. It is, of course, liable to kill the nitrifying organisms in the soil. Mixed with earth or waste vegetable matter it forms good compost. Gas lime gives the best results on stiff clay soils, while as much as three tons per acre may be spread directly on rough pasture land with benefit.

## GYPSUM

*Gypsum* applied directly to soils acts as a fixer of ammonia, but its greatest value is for use in cow-houses and on dunghills. It gives good results on clover, but is now seldom used as a separate article, as all superphosphates contain it in large quantity.

## MARL.

A marl is an earthy or clayey mixture, which may contain anywhere between 5 and 80 % of calcic carbonate, and is applied directly to the soil at from 30 (Essex) to 80 (Lincoln) cubic yards per acre. The richer varieties are sometimes burnt for lime. Soft chalk rock is also sometimes applied to the land in the same way, but it must be dug out and spread while wet at the approach of frost, so as to get it to crumble, otherwise the lumps harden on drying. Limestone is always burnt in kilns and applied as freshly as possible.

## EFFECT OF LIME ON SOILS.

1. Unites with felspar or clay (double silicates), setting free potash or other alkalis.
2. Acts on vegetable matter, setting free ammonia, water, nitric acid, and carbonic dioxide (which it unites with)—tending to destroy excess of humus.
3. Neutralises organic acids (humic, ulmic, geic, &c.)—thus "sweetening" the soil—and decomposes excess of ferrous sulphate.
4. Takes up the nitric acid as formed by the nitrifying *Bacterium*.
5. Is a plant food in itself.

6. Aids in the formation of zeolites (secondary silicates).

7. Opens up clay soil from the "curdling" or flocculating effect it has on the molecules of that substance, while on a light or sandy soil it binds the particles together and makes them more retentive.

8. Renders harmless injurious salts of copper, iron, &c.

Soils which contain more than 4 % of lime (carbonate) should not have any applied as a rule. Loamy and clayey soils contain 1 to 3 % of calcic carbonate, and defective soils less than 1 %. Quicklime should be applied to all clayey and humous soils, but light soils are best treated with the mild form in the shape of marl or chalk.

Lime has a tendency to sink in the soil, and Darwin has shown that the action of earth-worms buries it, so that it is best to apply small doses of lime at short intervals rather than large doses at long periods.

Lime should only be applied as a rule to soil containing much clay or humus; not in close contact with nitrogenous manures such as dung or guano, as it sets free the ammonia, which is liable to escape into the air, unless there is sufficient soil present to fix it.

#### APPLICATION OF MANURES.

It is only by actual experiment or experience that each farmer can find out for himself the system of manuring best adapted for his land. As the general result, however, of investigations carried on during past years, we have arrived at a knowledge of the relative importance of each manurial ingredient to each crop, and the comparative proportion which should be allowed of each in a mixed manure. This is here given, the figures signifying relative proportions only.

	Nitrogen.	Phosphoric Acid.	Potash.
Wheat .. ..	2	1	( $\frac{1}{2}$ )
Barley .. ..	2	2	( $\frac{1}{2}$ )
Oats .. ..	2	2	( $\frac{1}{2}$ )
Grass .. ..	2	2	1
Clover .. ..	—	$1\frac{1}{2}$	3
Beans .. ..	( $\frac{1}{2}$ )	$1\frac{1}{2}$	3
Tares .. ..	( $\frac{1}{2}$ )	$1\frac{1}{2}$	3
Turnips .. ..	1	3	1
Mangels .. ..	3	2	3
Potatoes .. ..	2	2	3
Cabbages .. ..	3	1	1

Those constituents enclosed in brackets should not be applied unless it is known from observation or experiment that the soil is deficient in them.

While no definite quantities of manure can be given as certain to yield good results everywhere, it may at the same time be stated that the following dressings approximate to those generally employed in practice where the soil is in fair condition, or where dung is used conjointly:—

*Wheat*.— $\frac{1}{2}$  to  $1\frac{1}{2}$  cwt. of nitrate of soda as a top-dressing in spring, either alone or in conjunction with 2 cwt. of slag or superphosphate.

*Barley*.— $\frac{1}{2}$  to  $1\frac{1}{2}$  cwt. of nitrate of soda, 3 cwt. of slag or superphosphate, and 3 cwt. of salt.

*Oats*.— $\frac{1}{2}$  to  $1\frac{1}{2}$  cwt. of nitrate of soda, and 2 to 3 cwt. of slag or superphosphate.

*Grass for Hay*.—1 to 2 cwt. of nitrate of soda, 1 cwt. of slag or superphosphate, and 2 to 4 cwt. of kainite.

*Clover*.—2 cwt. slag or superphosphate, 4 cwt. of kainite, and 5 cwt. of gypsum.

*Beans*.— $\frac{1}{2}$  cwt. nitrate of soda, 2 cwt. slag or superphosphate, and 2 cwt. of chloride of potassium.

*Tares*.—1 to 2 cwt. of slag or superphosphate, and 5 cwt. of kainite.

*Turnips*.—1 cwt. of nitrate of soda, and 5 cwt. of slag or superphosphate.

*Mangels*.—2 cwt. of nitrate of soda, 3 to 4 cwt. of slag or superphosphate, 5 cwt. of kainite.

*Potatoes*.—2 cwt. of nitrate of soda, 4 cwt. of slag or superphosphate, 4 cwt. of kainite.

*Cabbages*.—2 to 3 cwt. of nitrate of soda, 2 to 3 cwt. of slag or superphosphate, and 4 cwt. of kainite.

In the above list nitrate of soda, slag or superphosphate, and potash salts are used as being the cheapest sources of the three essential ingredients, but others may be substituted where thought desirable. Where, however, land is known to be in fair manurial condition, the dominant manures only should be used, as these only are likely to give a good return for outlay.

#### MIXING MANURES.

In mixing artificial manures great care must be taken not to put those together which are likely to have chemical reactions among their constituents. Thus, nitrate of soda must not be mixed with superphosphate, because the free sulphuric acid in the latter has a very great affinity for soda, and will set free the nitric acid in the form of poisonous fumes (nitric anhydride,  $N_2O_5$ ), whereby the nitrogen is lost. Again, slag phosphate contains a strong alkali in the form of caustic lime, and

If sulphate of ammonia is mixed with it, the ammonia is displaced by the lime and dissipated into the air. Or, again, if superphosphate and bones or slag are mixed, the soluble phosphate will take up some more base and become reverted, or reduced, phosphate. The following mixtures are safe :—

Superphosphates with sulphate of ammonia.

Bones with nitrate of soda or sulphate of ammonia.

Bones with slag.

Slag with nitrate of soda.

Fish guano with any mineral manure.

Phosphatic guanos with nitrate of soda or sulphate of ammonia.

Organic manures with any mineral manure.

If the manures are perfectly dry, and sowed immediately, there is less chance of chemical reactions taking place, but in any case sowing should be carried out as soon as possible after mixing.

#### FARMERS' EXPERIMENTS.

It is desirable that each farmer should test for himself the manurial requirements of his own soil, and for

this reason some simple experiments should be carried out. One of the handiest modes of procedure is to select five ridges, or stretches, right up the length of a field, and number them 1 to 5: to Nos. 1, 2, and 3 apply phosphate; to 2, 3, and 4, kainite; and to 1, 3, and 4, nitrate. The plots will then be manured thus :—

1. Phosphate and nitrate.
2. Phosphate and kainite.
3. Phosphate, kainite, and nitrate.
4. Kainite and nitrate.
5. No manure.

It is absolutely necessary to have one plot with no manure, and, indeed, in every application of artificials there should be a part left undressed, for purposes of comparison; and if thought advisable, any number of extra trials might be made with different kinds of manures yielding the same elements. This system does not interfere with the ordinary working of the field, while the crops will reveal which is the best dressing to use in future.

**SUPERIOR TREES, PLANTS, FARM,  
AND  
GARDEN SEEDS,**

**LITTLE and BALLANTYNE,**

*The Queen's Seedsmen,*

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**NURSERIES AND SEED FARMS, 600 acres.**

**CATALOGUES FREE.**

# FEEDING.

## COMPOSITION OF FOODS.

TABLE showing the percentage composition of proximate constituents (albuminoids, fats, and carbohydrates), together with ash, water, and fibre; also the proportion of constituents actually digestible; arranged alphabetically.

FOODS.	Water.	Albuminoids.	Fats.	Carbohydrates.	Fibre.	Ash.	DIGESTIBLE MATTER.			Organic Matter.
							Albuminoids.	Fats.	Carbohydrates.	
Acorns .. .. .	56.0	2.5	1.6	34.5	4.4	1.0	2.0	1.5	34.0	43.0
Apples .. .. .	83.1	0.4	..	11.3	4.8	0.4	0.3	..	11.3	16.5
Artichoke, Jerusalem .. .. .	80.0	2.0	0.2	15.5	1.3	1.0	2.0	0.2	15.5	19.0
Barley, seed .. .. .	14.0	10.0	2.3	66.1	4.9	2.7	7.7	2.3	56.1	83.0
Do. meal (whole) .. .. .	11.1	11.6	4.9	34.8	31.9	5.7	8.1	3.4	24.4	83.2
Do. bran .. .. .	12.0	14.8	4.1	45.6	19.4	4.1	11.5	3.6	34.2	83.9
Do. chaff and husk .. .. .	14.3	3.0	1.5	38.2	30.0	13.0	1.2	0.6	18.5	72.7
Do. straw .. .. .	14.3	3.3	1.4	32.5	43.0	5.5	0.8	0.4	31.4	80.2
Beans (meal), common .. .. .	14.5	25.5	1.6	45.9	9.4	3.1	23.0	1.4	43.6	82.4
Do. straw .. .. .	16.0	10.2	1.5	35.2	33.6	4.5	5.0	0.5	35.2	79.5
Bean forage .. .. .	87.2	2.8	0.3	5.2	3.5	1.0	2.0	0.2	5.2	11.7
Brewers' grains .. .. .	76.6	4.9	0.5	10.6	6.2	1.2	3.9	0.4	9.5	22.2
Do. do. desiccated .. .. .	12.0	18.7	8.1	49.0	7.9	4.3	..	..	..	83.7
Broom, forage .. .. .	51.5	4.5	2.0	17.0	21.0	4.0	2.3	0.8	17.1	44.5
Buckwheat, seed .. .. .	14.0	9.0	1.5	58.7	15.0	1.8	6.8	1.2	44.0	84.2
Do. bran .. .. .	14.0	17.1	4.4	46.4	14.7	3.4	13.5	3.9	38.1	82.6
Do. forage .. .. .	85.0	2.4	0.6	6.4	4.2	1.4	1.5	0.4	6.6	13.6
Do. straw .. .. .	13.3	15.0	1.2	44.1	14.1	2.3	..	..	..	84.4
Buttermilk .. .. .	90.1	3.0	1.0	5.4	..	0.5	3.0	1.0	5.4	89.4
Cabbage, Drumhead, outer leaves .. .. .	91.0	1.6	..	5.0	0.2	2.2	..	..	..	6.8
Do. do. inner do. .. .. .	89.4	1.5	..	7.0	1.3	0.8	..	..	..	10.8
Carrot leaves .. .. .	82.2	3.2	1.0	7.1	3.0	3.6	2.2	0.5	7.0	14.2
Do. root .. .. .	85.0	1.4	0.2	10.8	1.7	0.9	1.4	0.2	10.8	14.1
Clover, Red, forage .. .. .	78.0	3.2	0.8	9.5	6.8	1.7	1.8	0.5	9.6	26.3
Do. do. hay, poor .. .. .	15.0	11.1	2.1	37.7	28.9	5.1	5.7	1.0	37.9	89.9
Do. do. do. good .. .. .	16.5	15.3	3.2	35.8	22.2	7.0	10.7	2.1	37.6	86.5
Do. Cow-grass, forage .. .. .	77.4	2.2	0.9	10.0	6.8	2.7	..	..	..	19.9
Do. do. hay .. .. .	15.0	8.3	3.3	37.6	25.7	10.1	..	..	..	74.9
Do. Straw (seeded) .. .. .	16.0	9.4	1.0	28.5	39.6	5.5	..	..	..	78.5
Do. White, forage .. .. .	80.5	3.5	0.8	7.2	6.0	2.0	2.2	0.5	7.9	17.5
Do. do. hay .. .. .	16.5	14.5	3.5	3.9	25.6	6.0	8.1	2.0	35.9	77.5
Do. Hop Trefoil, forage .. .. .	80.0	3.5	0.8	8.2	6.0	1.5	2.2	0.5	8.7	18.5
Do. do. do. hay .. .. .	16.7	14.6	3.3	33.2	26.2	6.0	9.2	2.0	36.4	77.3
Do. Alsike, forage .. .. .	85.0	3.3	0.6	5.1	4.5	1.5	2.1	0.4	5.8	13.5



## COMPOSITION OF FOODS—continued.

FOODS.	Water.	Albuminoids.	Fats.	Carbohydrates.	Fibre.	Ash.	DIGESTIBLE MATTER.			Organic Matter.
							Albuminoids.	Fats.	Carbohydrates.	
Clover, Alsike, hay .. .. .	16.0	15.0	3.8	32.7	27.0	6.0	8.6	1.8	34.8	78.0
Do. Crimson, forage .. .. .	81.5	2.7	0.7	7.3	6.2	1.6	1.5	0.3	7.5	16.9
Do. do. hay .. .. .	16.7	12.2	3.0	32.6	30.4	5.1	6.2	1.4	34.9	78.2
Do. Trefoil (Nonsuch), forage .. .. .	76.8	5.7	0.9	7.7	6.4	2.5	..	..	..	20.7
Do. do. do. hay .. .. .	16.7	19.7	3.2	27.6	23.9	8.9	..	..	..	84.4
Do. average, forage .. .. .	79.5	3.5	0.7	8.1	6.3	1.9	..	..	..	18.6
Do. do. hay .. .. .	16.0	14.5	2.2	34.6	26.5	6.2	..	..	..	77.8
Comfrey, Prickly, forage .. .. .	88.4	2.7	..	6.8	0.2	1.9	..	..	..	9.7
Do. do. hay .. .. .	16.0	19.5	..	49.1	1.7	13.7	..	..	..	70.3
Cottonseed-cake, undecorticated .. .. .	11.5	24.6	6.2	30.6	20.8	6.8	18.1	5.6	14.1	82.2
Do. do. decorticated .. .. .	10.1	34.8	10.9	27.4	9.6	7.7	28.8	9.9	17.0	82.2
Cow's Milk .. .. .	87.5	3.2	3.6	5.0	..	0.7	3.2	3.6	5.0	11.8
Do. skimmed .. .. .	90.0	3.0	0.6	5.6	..	0.8	3.0	0.6	5.6	9.2
Do. separated .. .. .	90.5	3.9	0.4	4.5	..	0.7	3.9	0.4	4.5	8.8
Do. condensed .. .. .	21.5	10.2	12.9	52.9	..	2.5	10.2	12.9	52.9	76.0
Cream .. .. .	62.0	2.7	31.8	2.9	..	0.6	2.7	31.8	2.9	37.4
Ensilage, sour:—										
Alsike .. .. .	75.4	3.8	1.8	10.6	6.7	2.1	2.0	1.2	9.4	22.5
Beet leaves .. .. .	80.0	3.0	1.2	9.0	2.7	4.1	2.0	0.7	6.3	15.9
Grass .. .. .	86.0	2.0	0.8	8.1	6.5	2.0	1.4	0.8	8.5	12.0
Lucerne .. .. .	82.9	3.8	1.5	4.7	5.0	2.1	2.8	0.9	5.3	15.0
Lupine .. .. .	84.0	3.1	2.1	4.4	4.9	1.1	2.2	1.1	6.1	14.9
Maize .. .. .	84.4	1.2	1.2	6.8	5.0	1.4	0.9	0.9	8.2	14.2
Mustard .. .. .	84.9	2.5	0.4	6.1	3.8	2.3	1.6	0.4	5.2	12.8
Potato haulm .. .. .	77.0	2.9	2.6	7.5	4.7	5.3	1.2	1.2	6.2	17.7
Red clover .. .. .	79.2	4.2	2.2	6.4	5.9	2.1	2.8	1.5	7.2	18.7
Sainfoin .. .. .	83.3	3.4	1.0	5.1	5.9	1.3	1.7	0.7	5.4	15.4
Ensilage, sweet:—										
Grass .. .. .	68.0	3.8	2.7	12.9	9.9	2.7	2.3	1.6	13.4	29.3
Lucerne .. .. .	72.5	4.0	3.2	6.1	10.7	3.5	3.0	1.9	8.5	24.0
Red clover .. .. .	70.0	5.6	2.0	11.6	8.5	2.3	3.9	1.3	11.6	27.7
Gorse .. .. .	72.0	3.2	1.2	8.2	13.4	2.0	..	..	..	26.0
Grasses, mean of 18 species, forage .. .. .	68.8	3.4	0.9	14.1	10.8	2.0	..	..	..	29.2
Do. do. do. hay .. .. .	15.0	9.4	2.6	38.8	28.5	5.7	..	..	..	79.3
Do. before flowering, forage .. .. .	75.0	3.0	0.8	13.1	6.0	2.1	2.0	0.4	13.0	22.9
Do. meadow hay, good.. .. .	15.0	11.7	2.8	41.6	21.9	7.0	7.4	1.3	41.7	78.0
Do. do. do. poor.. .. .	14.3	7.5	1.5	38.2	33.5	5.0	3.4	0.5	34.9	80.7
Do. do. aftermath hay .. .. .	14.3	11.7	3.1	42.3	22.0	6.6	7.4	1.4	42.3	79.1
Do. pasture .. .. .	80.0	3.5	0.8	9.2	4.5	2.0	2.4	0.4	9.9	18.0
Do. rich pasture .. .. .	78.2	4.4	0.8	9.6	4.8	2.2	3.1	0.4	10.8	19.6
Do. Rye-grass, Italian, forage.. .. .	73.4	3.6	1.0	12.1	7.1	2.8	2.3	0.4	12.6	23.8
Do. do. do. hay .. .. .	14.3	11.2	3.2	40.6	22.9	7.8	7.1	1.4	41.5	77.9
Do. do. Perennial, forage .. .. .	70.0	3.6	1.0	12.8	10.6	2.0	1.8	0.3	12.2	28.0

COMPOSITION OF FOODS—*continued.*

FOODS.	Water.	Albuminoids.	Fats.	Carbohydrates.	Fibre.	Ash.	DIGESTIBLE MATTER.			Organic Matter.
							Albuminoids.	Fats.	Carbohydrates.	
Grasses, Rye-grass, Perennial, hay .. ..	14.3	10.2	2.7	36.1	30.2	6.5	5.1	0.8	35.3	79.2
Do. Timothy, forage .. ..	70.0	3.4	1.1	16.3	8.0	2.2	2.1	0.5	16.0	27.8
Do. do. hay .. ..	14.3	9.7	3.0	45.8	22.7	4.5	5.8	1.4	43.4	81.2
Heath (young) .. ..	54.6	3.7	3.0	15.1	19.7	3.7	1.9	1.0	15.6	41.7
Kohl-Rabi, leaves .. ..	85.0	2.8	0.8	8.2	1.4	1.8	2.0	0.4	7.6	13.2
Do. bulbs .. ..	87.0	1.3	0.1	9.5	1.1	1.0	1.3	0.1	9.5	12.0
Lentils, seed.. ..	14.5	23.8	2.6	49.2	6.9	3.0	21.4	2.2	46.7	82.5
Do. forage .. ..	70.0	5.0	0.4	11.0	10.3	2.3	..	..	..	27.7
Do. straw .. ..	16.0	14.0	2.0	27.9	33.6	6.5	6.9	1.2	30.8	77.5
Linseed .. ..	12.3	20.5	37.0	19.6	7.2	3.4	17.2	35.2	15.3	84.3
Do. meal, extracted .. ..	9.7	34.2	4.5	37.7	6.6	7.3	28.7	4.0	29.4	83.0
Do. cake.. ..	11.5	28.3	10.0	37.3	11.0	7.9	23.8	8.9	29.0	80.6
Lucerne, forage .. ..	74.0	4.5	0.8	9.2	9.5	2.0	3.2	0.3	9.1	24.0
Do. hay .. ..	16.5	16.0	2.3	31.8	26.6	6.8	12.3	0.9	31.4	76.6
Lupines, forage .. ..	85.3	3.1	0.3	6.6	3.5	1.2	2.3	0.1	6.9	13.5
Do. straw (seeded) .. ..	16.0	5.9	1.1	32.1	40.8	4.1	2.2	0.3	41.6	79.9
Do. at flowering, hay .. ..	16.7	23.2	2.0	28.8	25.2	4.1	17.2	0.6	36.0	79.2
Do. after do. do. .. ..	15.0	11.8	2.9	33.5	30.5	6.3	7.8	0.9	38.4	78.7
Malt, dust or combs .. ..	8.0	23.0	2.5	42.2	17.5	6.8	18.4	1.7	38.0	85.2
Do. do. cake (maize) .. ..	10.2	15.4	11.3	45.6	10.3	7.2	12.3	10.2	41.0	82.6
Maize, grain .. ..	14.4	10.0	6.5	62.1	5.5	1.5	8.4	4.8	57.8	84.1
Maize, germs .. ..	11.9	..	..	..	..	5.5	10.5	14.8	44.0	82.6
Mangel-Wurzel, leaves .. ..	90.5	1.9	0.5	4.0	1.3	1.8	1.2	0.2	4.0	8.7
Do. roots .. ..	88.0	1.1	0.1	9.1	0.9	0.8	1.1	0.1	9.1	11.2
Molasses .. ..	92.0	2.0	..	4.4	..	1.6	2.0	..	4.4	6.4
Mustard, forage .. ..	82.7	2.1	0.5	7.5	5.8	1.4	1.4	0.3	7.9	16.9
Oats, seed .. ..	14.3	12.0	6.0	55.7	9.3	2.7	9.0	4.7	41.8	83.0
Do. meal .. ..	10.5	11.0	4.5	52.2	14.5	6.8	8.5	3.6	48.2	83.7
Do. bran .. ..	9.4	2.7	1.3	52.2	27.9	6.5	1.3	0.6	40.1	84.1
Do. husk .. ..	14.0	1.8	1.5	0.4	75.9	6.4	..	..	..	79.6
Do. chaff .. ..	14.3	4.0	1.5	36.2	34.0	10.0	1.6	0.6	36.6	75.7
Do. straw .. ..	14.3	3.5	2.0	34.2	42.0	4.0	1.3	0.6	37.4	81.7
Do. forage .. ..	81.0	2.3	0.5	8.3	6.5	1.4	1.3	0.2	8.9	17.6
Do. hay .. ..	15.0	10.2	0.8	40.2	27.6	6.2	7.2	1.1	35.9	78.8
Do. and Vetches, forage .. ..	84.0	2.4	0.4	6.4	5.4	1.4	1.4	0.2	6.9	14.6
Do. do. hay .. ..	16.7	12.6	2.3	33.2	28.0	7.2	7.2	1.1	35.9	76.1
Palm-Nut meal, pressed .. ..	9.0	18.5	3.3	36.7	28.6	3.9	18.5	3.3	33.8	87.1
Do. cake .. ..	9.1	16.3	13.1	36.4	21.5	3.0	16.3	13.1	33.5	87.3
Parsnip, leaves .. ..	83.1	1.8	0.4	9.9	2.2	2.6	1.2	0.2	9.9	14.3
Do. root .. ..	88.3	1.6	0.2	10.2	1.0	0.7	1.6	0.2	1.2	11.0
Peas, seed .. ..	14.3	22.4	2.0	52.5	6.4	2.4	20.2	1.7	49.9	83.3
Do. meal .. ..	11.4	23.7	3.5	54.5	4.5	3.5	20.9	2.8	55.4	85.1
Peas, shells .. ..	12.3	8.0	2.5	30.5	43.7	3.0	5.6	2.0	46.3	84.7

## COMPOSITION OF FOODS—continued.

FOODS.	Water.	Albuminoids.	Fats.	Carbohydrates.	Fibre.	Ash.	DIGESTIBLE MATTER.			Organic Matter.
							Albuminoids.	Fats.	Carbohydrates.	
Peas, forage .. .. .	81.5	3.2	0.6	7.6	5.6	1.5	2.2	0.3	7.4	17.0
Do. straw .. .. .	16.0	6.5	1.0	34.0	38.0	4.5	2.9	0.5	33.4	79.5
Potato .. .. .	75.0	2.1	0.3	20.6	1.1	0.9	2.1	0.3	20.6	24.1
Do. haulm .. .. .	78.0	2.3	1.0	9.7	6.0	3.0	1.0	1.3	8.3	19.0
Rape, seed .. .. .	11.8	19.4	42.5	12.1	10.3	3.9	15.5	42.5	10.2	84.3
Do. meal, pressed .. .. .	8.5	33.1	3.0	34.1	13.4	7.9	26.5	2.4	27.2	83.6
Do. cake .. .. .	10.4	30.7	9.8	30.1	11.3	7.7	24.9	7.6	23.8	81.9
Do. straw .. .. .	14.3	3.0	1.3	33.3	44.0	4.1	0.8	0.4	36.5	81.6
Do. forage .. .. .	87.0	2.9	0.6	3.7	4.2	1.6	2.0	0.4	4.8	11.4
Rice, meal .. .. .	11.5	9.9	7.3	63.3	2.7	5.3	7.6	6.4	65.0	83.2
Sainfoin, forage .. .. .	81.4	4.2	0.7	7.3	5.2	1.2	3.0	0.5	7.9	17.4
Do. hay .. .. .	16.7	13.3	2.5	34.2	27.1	6.2	7.6	1.4	35.8	77.1
Sunflower, seed .. .. .	8.0	13.0	23.6	23.9	28.5	3.0	11.1	21.2	28.1	89.0
Turnip, Swede, leaves .. .. .	88.3	2.1	0.5	5.2	1.6	2.3	1.5	0.3	5.1	9.3
Do. do. bulbs .. .. .	89.4	1.4	0.2	7.1	1.3	0.6	1.3	0.1	6.3	10.0
Do. Yellow, leaves .. .. .	87.2	2.8	..	4.0	4.2	1.8	..	..	..	11.0
Do. do. bulbs .. .. .	90.5	1.8	0.2	4.6	2.3	0.6	..	..	..	8.9
Do. White, leaves .. .. .	88.0	2.5	..	3.8	4.9	1.8	..	..	..	10.2
Do. do. bulbs .. .. .	92.0	1.1	0.1	5.3	0.8	0.7	1.1	0.1	5.3	7.3
Vetch or Tare, seed .. .. .	13.4	26.4	1.8	48.6	6.6	3.2	23.3	1.6	50.0	23.4
Do. pods .. .. .	15.0	8.5	2.0	33.5	33.0	8.0	4.2	1.2	34.3	77.0
Do. straw .. .. .	16.0	7.5	1.0	29.0	42.0	4.5	3.4	0.5	31.9	79.5
Do. forage .. .. .	82.0	3.5	0.6	6.6	5.5	1.8	2.5	0.3	6.7	16.2
Do. hay .. .. .	16.7	14.2	2.5	32.8	25.5	8.3	9.4	1.5	32.5	75.0
Do. Kidney, forage .. .. .	83.0	1.9	0.4	7.9	5.8	1.0	..	..	..	16.0
Do. do. hay .. .. .	15.0	9.5	2.4	39.5	22.5	5.1	..	..	..	78.9
Walnuts .. .. .	44.7	12.6	31.5	9.0	0.5	1.7	..	..	..	53.6
Wheat, seed .. .. .	14.4	13.0	1.5	66.4	3.0	1.7	11.7	1.2	64.3	83.9
Do. flour .. .. .	12.6	11.8	1.2	74.1	0.7	0.7	..	..	..	86.7
Do. meal .. .. .	11.5	13.9	3.3	63.5	4.8	3.0	10.8	2.9	54.0	85.5
Do. bran (coarse) .. .. .	13.6	13.6	3.4	54.9	8.9	5.6	10.6	2.4	44.4	80.8
Do. do. from groats (fine) .. .. .	12.1	14.1	4.2	58.2	7.3	4.1	11.0	2.9	47.2	83.8
Do. middlings (fine pollards) .. .. .	12.5	14.6	3.4	61.6	4.7	2.9	..	..	..	85.6
Do. sharps (coarse pollards) .. .. .	12.8	14.6	3.9	54.6	9.2	4.8	..	..	..	82.6
Do. refuse from starch .. .. .	72.0	6.3	1.5	16.5	3.0	0.7	5.4	1.2	14.8	27.3
Do. germs .. .. .	9.9	27.7	10.5	45.7	1.5	4.5	..	..	..	85.6
Do. chaff .. .. .	14.3	4.5	1.4	34.6	36.0	9.2	1.4	0.4	32.8	76.5
Do. straw (winter) .. .. .	14.3	3.0	1.2	36.9	40.0	4.6	0.8	0.4	35.6	81.1
Do. do. (spring) .. .. .	14.3	6.9	2.5	32.9	36.7	6.7	2.5	0.8	36.9	79.0

## CONSTITUENTS OF PLANTS.

## EXPLANATION of the Terms used in a Food Analysis.

<b>WATER:</b>	Forms a very large proportion of all fresh plants, and 14 to 17 % of dry foods, such as hay. Is absolutely necessary as a vehicle of plant food, and for carrying on the vital processes.
<b>ALBUMINOIDS:</b> Glutin and Gluten. Vegetable Casein, as Legumin, Avenin, Hordein, &c.	Nitrogenous materials which go to form the flesh of animals (hence called "flesh-formers") and also the gelatinoids and some of the fat, 100 parts of albumin yielding 51.4 of fat; by combustion in animal body yield heat and mechanical force; repair waste of nitrogenous tissue; supply in themselves most of the requirements of the animal.
<b>AMIDES AND NITRATES:</b> Asparagin, Glutamin, Leucin, &c.	Non-albuminoid nitrogenous materials which do not form muscle, but are burnt to produce heat and force in the body. The nitrogen, in common with that from the albuminoids is excreted as <i>urea</i> . They occur in very small proportion in ripe plants, but are in considerable amount in green fodders, roots, and tubers. Thus, in young grass 25 % of the nitrogen usually exists as amides; in potatoes, 40 %; in turnips, 50 %; while in mangels 63 % is in the form of amides, and only 37 % as true albuminoids. The nitrogen of nitrates is rarely estimated in ordinary food analyses, but in the above table the "digestible albuminoids" include also the digestible amides.
<b>FATS AND OILS:</b> Palmitin, Sterin, Olein, Margarin, &c.	Are first digested and taken into the blood, and then burnt in respiration to give heat and mechanical force; thus are "heat-givers"; 1 of fat = 2.29 of starch or other carbohydrates in food value. The principal use of fat in the body as a food seems to be to nourish the protoplasm of the tissues and prevent waste. The fat deposited in the body is formed from the decomposition of the protoplasm.
<b>CARBOHYDRATES:</b> Starch, Sugar, Gum, Dextrin, Mucilage, Fibre or Cellulose, &c.	Are more immediately used for heat and mechanical work; if taken in excess are stored up as fat. Consist of carbon, hydrogen, and oxygen, the last two in the proportion to form water—differing in this respect from

**CARBOHYDRATES—** hydrocarbons. They form the largest part of all vegetables. The portion of carbohydrates, including fibre, which is digested has always the general formula of starch or cellulose ( $C_6H_{10}O_5$ ), while the undigested part is richer in carbon. Lignin, deposited in tissues of older plants, contains more carbon, and is indigestible. In the table of analyses above part of the "fibre" is digestible, and is included in the "digestible carbohydrates."

*continued.*

**ASH:** The incombustible or mineral part of plants or foods. Consists mostly of salts. Goes to form bone, blood, &c., in the animal.

Salts of Potash,  
Soda, Magnesia,  
Phosphate of  
Lime, &c.

## CORRESPONDING CONSTITUENTS OF ANIMAL BODIES.

<b>ALBUMINOIDS:</b> Fibrin, Albumin, Casein, Globulin, &c.	Form animal tissue (muscle) and nerve, and greater part of solid matter of blood; of the first importance in the animal economy.
<b>GELATINOIDS:</b> Gelatin, Chondrin, Ossein, &c.	Substances of akin and sinew and all connective tissue, and also the combustible part of cartilage and bone. Glue and isinglass are commercial forms.
<b>HORN MATTER:</b> Keratin.	Material of which hair, horn, wool, and feathers are constituted.

The above are nitrogenous bodies.

**FATS AND OILS:** Stearin preponderates in solid, and olein in fluid fats; palmitin also is present. Much the same in composition and properties as vegetable fats and oils.

**ASH:** Largest proportion contained in the bones, 75 to 85 % of the total ash constituents of fat animals being found in them. Bone ash chiefly consists of calcic phosphate, with a small quantity of calcic carbonate, and magnesian phosphate. Protassic phosphate is the most abundant salt in muscle. Protassic salts are also abundant in the "yolk" of unwashed wool. Sodic salts are very abundant in blood, forming about one-half of the solids.

## ALBUMINOID RATIO.

The proportion between the nitrogenous and non-nitrogenous digestible constituents in a food is of great importance, as upon this the economical and successful feeding of animals very much depends.

This proportion is called the "albuminoid" or "nutrient ratio," and varies considerably for the different kinds of live stock, as shown in the following tables:—

## ALBUMINOID RATIOS SUITABLE FOR VARIOUS ANIMALS:

## AMIDES, &amp;c., NOT RECKONED. (Warington.)

Young animals on milk	..	..	..	1 : 3—4
Rapidly growing animals	..	..	..	1 : 5—7
Maintenance of oxen at rest..	..	..	..	1 : 14
Do. sheep do.	..	..	..	1 : 12
Fattening oxen..	..	..	..	1 : 9—10
Do. sheep	..	..	..	1 : 8—9
Do. pigs..	..	..	..	1 : 7
Horses working on maize will do with	..	..	..	1 : 9
Horses in severe exertion	..	..	..	1 : 4—5
Milking cows	..	..	..	1 : 6—7
General average	..	..	..	1 : 6

In calculating out this ratio the average percentages of the various digestible constituents are taken, the fat reduced to its equivalent in carbo-hydrates (by multiplying by 2.29), and the total quantity of non-nitrogenous matter is divided by the total quantity of nitrogenous. For example, take the feeding of the London dray horses—a breed used for heavy draught—oats, 18 lbs.; maize, 3 lbs.; beans, 6 lbs.; clover hay, 15 lbs.; in all 37 lbs. daily, at a cost of 2s. :—

		Dry Organic Matter.	Albuminoids.	Fats.	Carbo-hydrates
	lbs.	lbs.	lbs.	lbs.	lbs.
Oats	18	10.79	9.0 × 18 = 1.17	4.7 × 18 = 0.81	41.8 × 18 = 5.48
Maize	3	2.53	8.4 × 3 = 0.25	4.8 × 3 = 0.14	57.8 × 3 = 1.78
Beans	6	4.94	28.0 × 6 = 1.68	1.4 × 6 = 0.08	48.6 × 6 = 2.61
Clover	15	11.63	10.7 × 15 = 1.60	2.1 × 15 = 0.31	87.6 × 15 = 5.64
		29.88	4.4	1.15	15.43
				2.29	
				1085	
				280	
				280	
				3.635	
				15.424	
			4.40	18.0675 (4.1	
				1760	
				457	
				440	

or,

Albuminoid ratio as 1 : 4.1.

In the above the sum arrived at in each case by multiplying the pounds of the food by the percentage of each ingredient is divided by 100, and gives the actual weight in pounds of each : thus, dry matter, 29.88 lbs.; albuminoids, 4.4 lbs.; fats, 1.15 lbs.; and carbohydrates, 15.42 lbs.

## FOOD REQUIRED TO PRODUCE 1 LB. INCREASE IN LIVE WEIGHT IN FATTENING ANIMALS.

(Lawes and Gilbert.)

	Ox.	Sheep.
	lbs.	lbs.
Linseed-cake	2.5	2.5
Clover hay	6.0	3.0
Swedes	35.0	40.0

Pigs require about 5 lbs. barley meal to produce the same result.

## ESSENTIALS OF A "PURE" CAKE.

(Dr. A. J. Voelcker.)

- (1.) That it be made from sound seed of not less than 95 per cent. purity, subsequently well screened.
- (2.) That it contain no ingredients of a poisonous or deleterious nature.
- (3.) That it be entirely free from sophistication of any kind.
- (4.) That it contain not more than 2 per cent. of sand.
- (5.) That it be sold in good merchantable condition.

## MIXING AND PREPARING FOODS.

In addition to having food properly balanced as regards the albuminoid and other ingredients, it is necessary to have it of a mixed character—that is, with as great a number of kinds used to make up a ration as possible. There should be a moderate use of condimental preparations, but salt especially should be within reach. The reason appears to be that the digestibility is increased where there is a mixture, while the palatability is improved where condiments and salt are used. We find with ourselves, that our food is much more agreeable when there is a variety, and where pickles, spices, &c., are used.

Besides this, the preparation of the food is of importance in lessening the work of digestion, and in furthering the assimilation of a greater amount of nutriment out of a given quantity of material. For this reason it pays to chaff the whole or part of the fodder, slice or pulp the roots, bruise or grind up the grain, break the cake, and cook or steam various mixtures. An example will show the benefit thus derived. If a horse is fed with oats "neat," they will be found to pass through him more or less whole; if, however, they are bruised, or mixed with chaffed hay so as to compel him to masticate them thoroughly, then the digestive secretions (saliva, gastric juice, bile juice, &c.) can attack and dissolve every particle so that there is no waste. Cooking or steaming does not increase the digestibility, but it improves the palatability, and thus allows of the use of tail corn, musty hay, &c.; while warm food is beneficial to live stock during cold weather, as it saves the waste of heat-producers, which must otherwise be used up in excess. Blood heat (say 100° F.) is the most suitable temperature.

# DAIRYING.

## ANNUAL YIELD OF MILK OF THE VARIOUS BREEDS.

The standards proposed for the respective breeds by the British Dairy Farmers' Association for entry in the "Dairy Cattle Register" are as under:—

Pedigree and Non-Pedigree.	Weight of Milk in the Milking Period (not exceeding 11 months).	Pure Butter Fat per diem (average of two tests) as determined by Analysis.
	lbs.	lbs.
Shorthorn .. ..	8,500	1.25
Jersey .. ..	6,000	1.25
Guernsey .. ..	6,000	1.25
Ayrshire .. ..	7,500	1.00
Red-Polled .. ..	7,000	1.00
Kerry and Dexter Kerry ..	4,500	0.75
Dutch .. ..	8,500	1.00

The standard for crosses of either of the above will be the mean of the standards for the pure breeds. No animal will be admitted whose milk contains less than 12 per cent. of solids at any test.

## COMPARATIVE YIELD OF THE DIFFERENT BREEDS OF COWS.

(Average of Milking Trials of the British Dairy Farmers Association for Ten Years.)

BREED.	Daily Milk.	Total Solids.	Fat.	Solids other than Fat.
	lb.	%	%	%
119 Shorthorns .. ..	43.13	12.87	3.73	9.14
115 Jerseys .. ..	27.87	14.86	4.56	9.80
49 Guernseys .. ..	28.30	14.00	4.77	9.23
26 Crosses .. ..	39.12	12.91	3.69	9.2
7 Dutch .. ..	43.81	12.11	3.26	8.85
11 Ayrshires .. ..	34.26	13.43	4.15	9.28
2 Devons .. ..	30.12	14.34	4.90	9.44
3 Red-Polls .. ..	43.10	12.72	3.60	9.12
1 Welsh .. ..	46.00	12.74	4.16	8.58
3 Kerrys .. ..	28.50	14.22	4.40	9.82

## CREAM.

### Analysis of Cream, &c.

	Rich Cream.	Separated Cream.	Skim Milk.	Separated Milk.
Water .. ..	55.0	66.1	90.0	90.8
Albuminoids .. ..	6.0	2.6	3.7	3.3
Butter fat .. ..	36.2	27.9	0.8	0.2
Milk Sugar .. ..	2.5	3.0	4.8	5.1
Ash .. ..	0.3	0.4	0.7	0.6

100.0 100.0 100.0 100.0

With the ordinary shallow-pan system of setting 8 inches deep, the cream will all rise in 24 to 30 hours with the dairy at a temperature of 58° to 60° F.

With the Cooley and Schwartz systems, the milk is set 20 inches deep in cold water (iced, if possible), and the cream rises in 12 hours.

With the "Jersey" or "Dorset" pans, the milk is also set warm (90° F.), and the water should not be higher than 58° to 60° F., nor lower than 45° F.; cream rises in 12 hours.

With a separator running at 2,000 to 4,000 revolutions per minute, the cream is procured instantaneously, but it is thinner than that from the other systems. The milk must be at 80° to 90° F.

For Devonshire scalded cream, the milk is set shallow at 60° F. for 12 hours, then placed on a stove and kept at 180° F. until the surface becomes wrinkled. More cream is raised, and it is more easily churned by this system, while the scalding cures taints.

The specific gravity of cream is about 0.90.

## BUTTER.

Sweet cream should be churned at 50° to 55° F., ripened cream at 54° to 60° F., and soured or whole milk at 60° to 65° F. Sweet cream makes butter which will keep longest, but it takes longer to churn, yields less, and is deficient in flavour, owing to the almost complete removal of the casein.

Good "grain" is given to butter if churned at proper temperature; if too low, will be long in coming and hard-grained; if too high, will come speedily, but be greasy.

In churning, never fill the churn more than half full; drive at 45 to 50 revolutions per minute; ventilate at first; stop when the butter "breaks," and add a little cold water; turn a little again till the grains gather as large as hail-shot; draw off the buttermilk and add clean cold water for washing; repeat the washing until the water runs off clear; allow the butter to drain before working up; keep in a cool place.

First-class butter contains only 10 per cent. of water, and not more than 0.5 per cent. of casein.

Ten quarts of milk will yield 1 quart of cream with good feeding (= 10 per cent.). 1 quart of cream will yield 12 oz. to 16 oz. of butter; or 2½ lbs. of separated cream will yield 1 lb. of butter; cream churns best when yielding 3 lbs. per gallon, and should be diluted down to this. 1 quart of whole milk will yield 1½ oz. of butter. Average produce of a cow is over 250 lbs. of butter per annum—two months dry.

Butter intended for immediate use requires only about ½ oz. of salt per lb., or simply to be steeped in brine made with 1 lb. of salt to 1 gallon of water, for 10 to 30 minutes, while in the granular stage; for keeping must have ¾ to 1 oz. per lb., ground fine and worked in.

## BREEDERS' ANNOUNCEMENTS.

### HORSES.

#### Hackneys.

ANDERTON, JOHN E., BREEZE HILL STUD FARM, PRESTON, LANCASHIRE. Breeder of pedigree Hackneys. The brood mares and young stock are by Lord Derby 2nd, Donal Grant, Connaught, Duke of Norfolk. Stud horse, Doctor Fred, 4228, winner of five first prizes and one second, only times shown, including First Hackney Horse Society's Show, 1890, and First Chester Royal.

BELL, J., HARRIOTT, ROSNIE FORQUANDENY, PERTHSHIRE, N.B. Stud of registered Hackneys and Ponies descended from the most fashionable blood and noted prize winners on sale. Stallions, mares, colts, and fillies. For further particulars apply to Stud Groom.

DARBY, ALFRED, LITTLE NESS, SHREWSBURY. Prize-winning Hackneys of best Yorkshire and Norfolk strains, by Danegelt, Old Confidence, Confidence 163, Blaze II., &c., and which combine the blood of Lord Derby II., Trifit's Fireaway, and other well-known sires. Can be seen by appointment.

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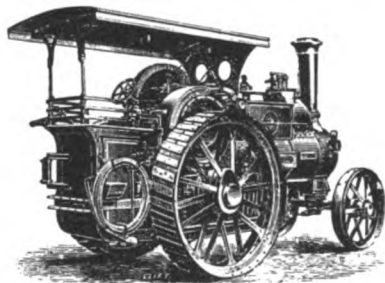
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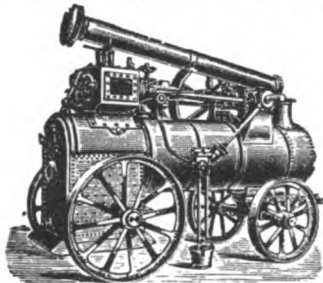


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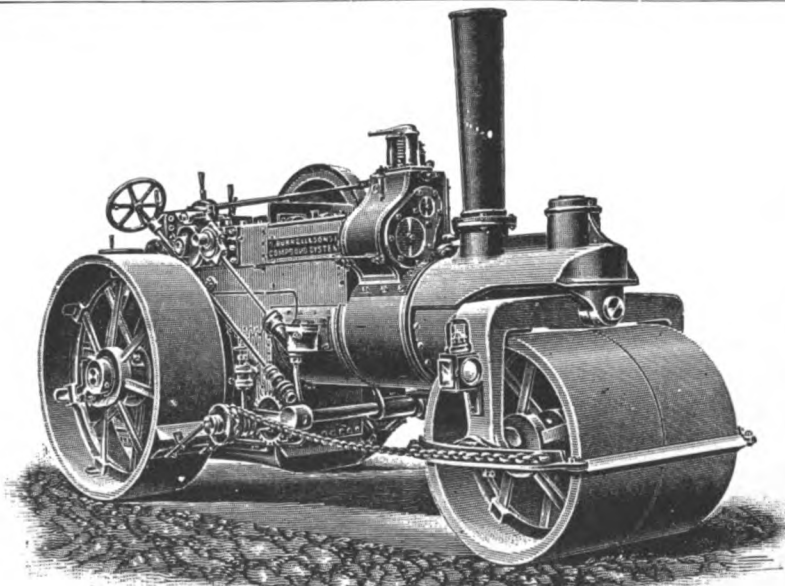


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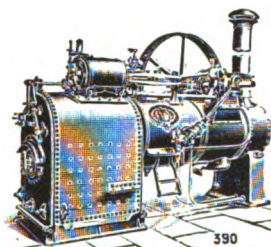
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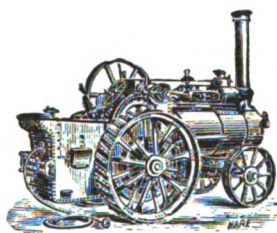
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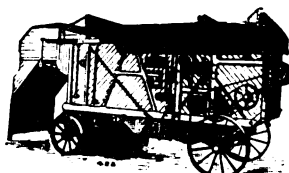
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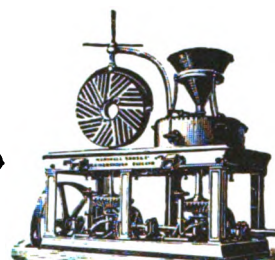
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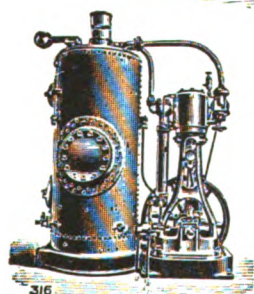
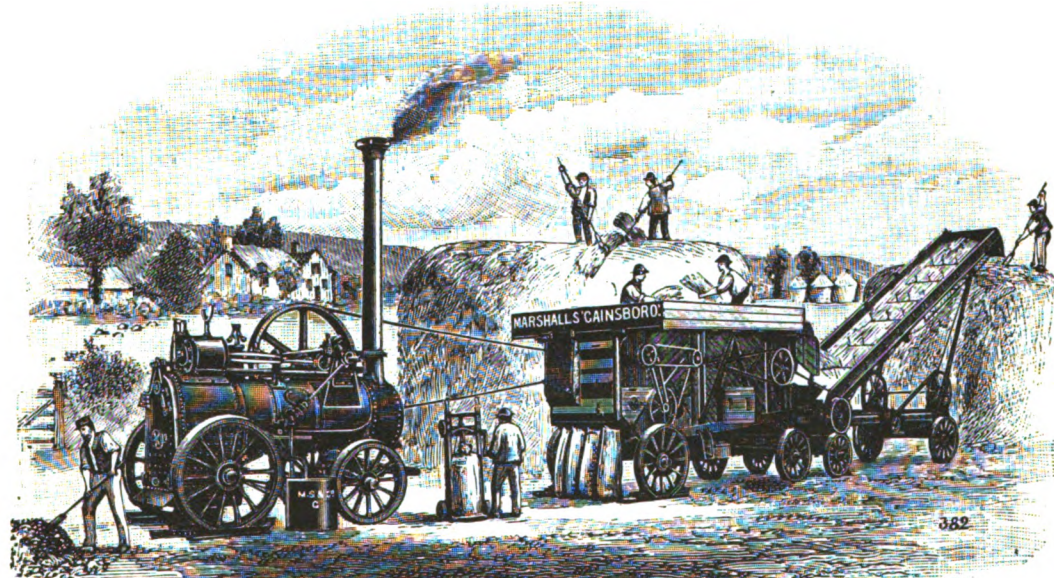
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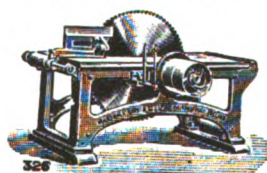
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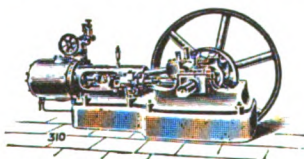
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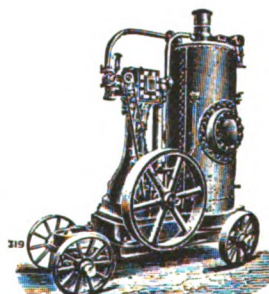
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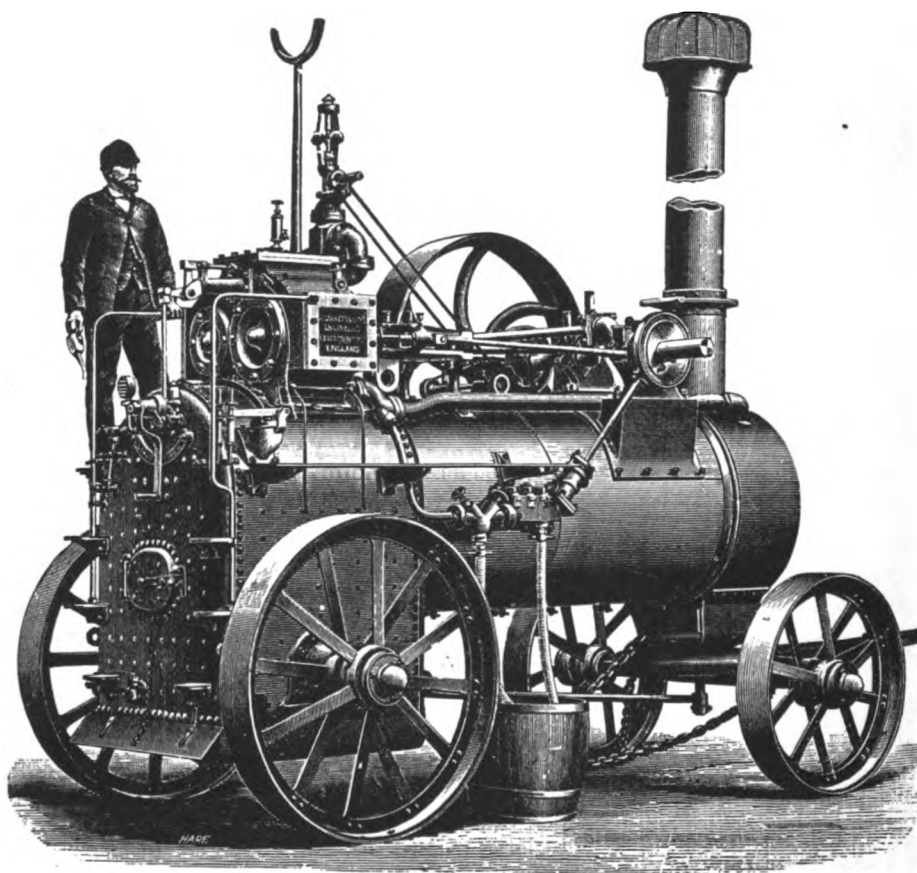
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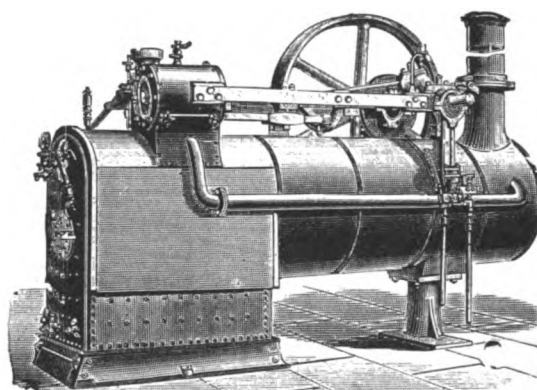
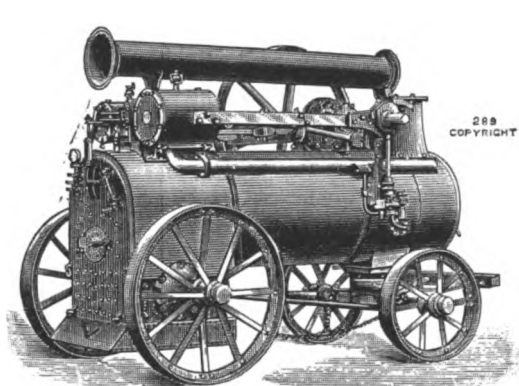


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## MANUFACTURERS OF STEAM ENGINES & BOILERS.

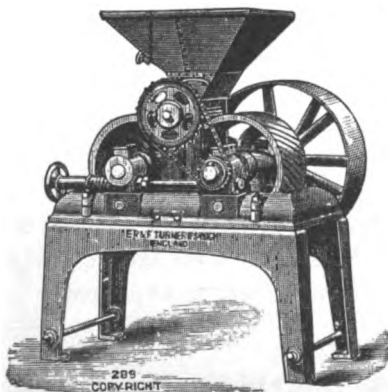
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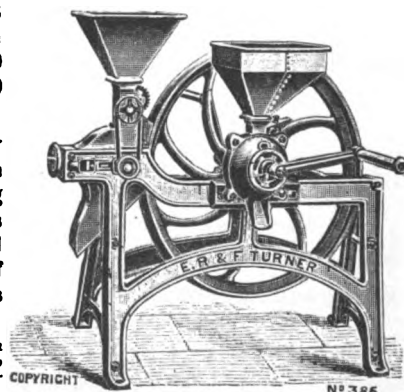
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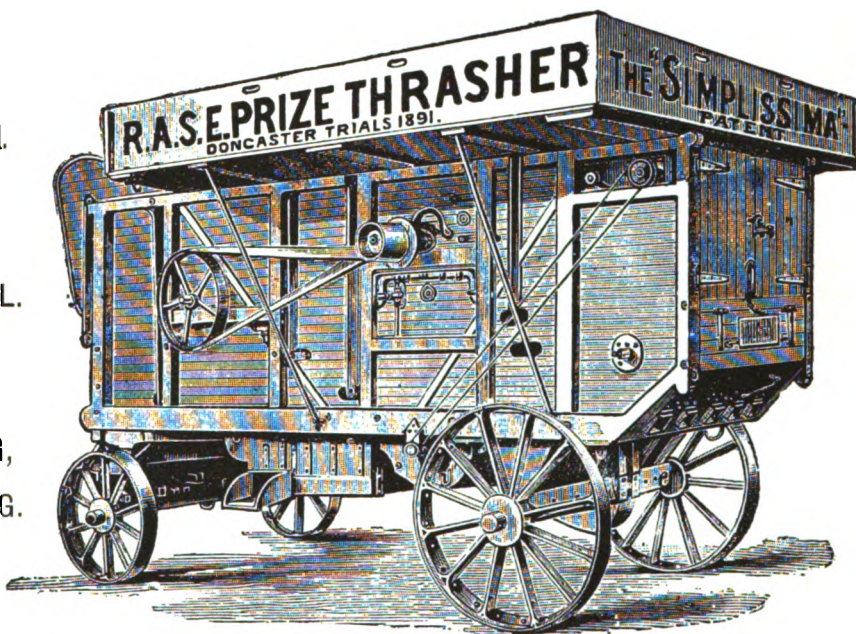
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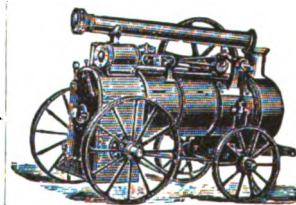
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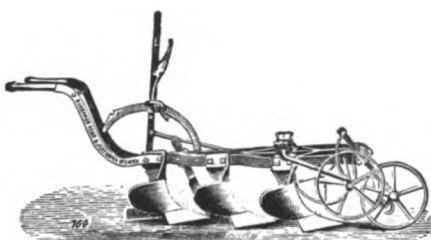
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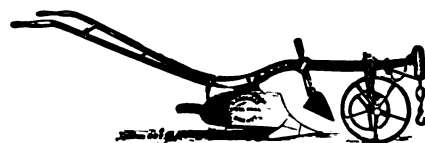
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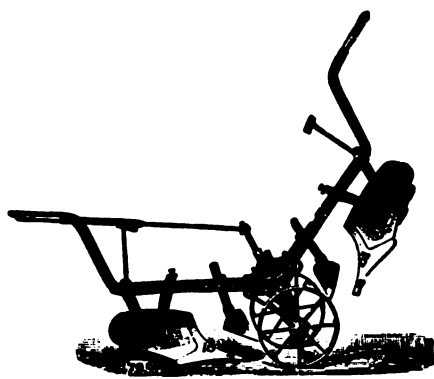
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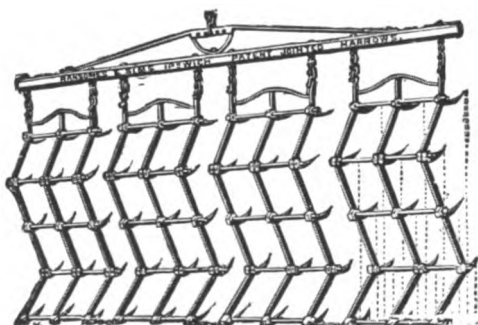
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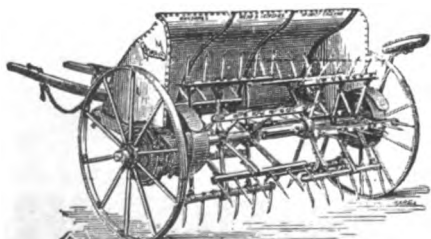
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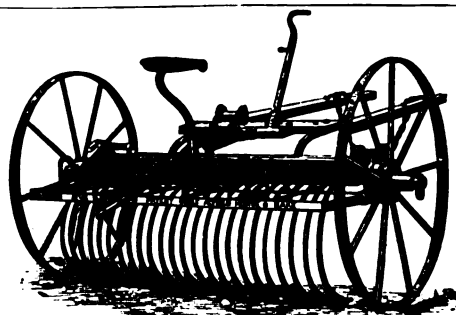
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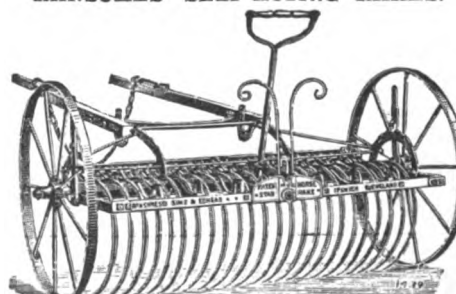
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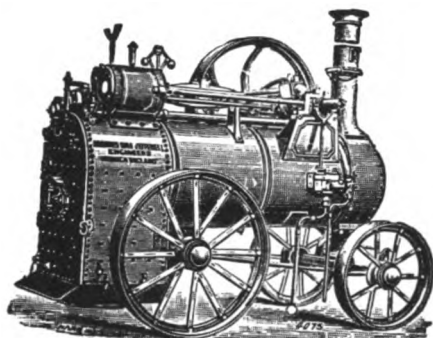
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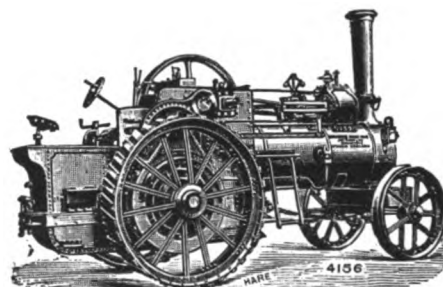
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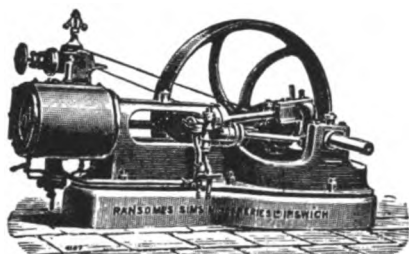
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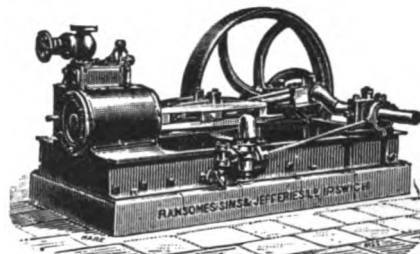
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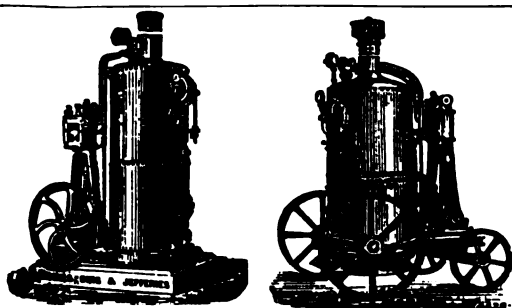
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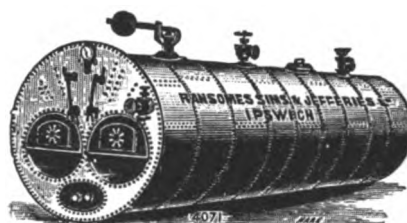
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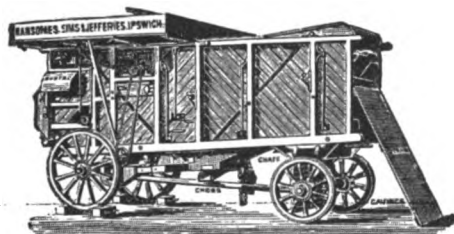
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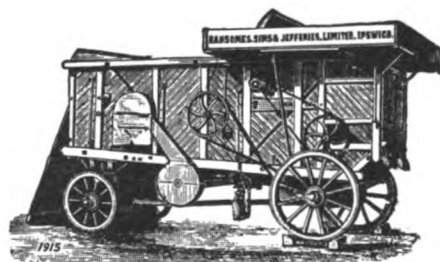
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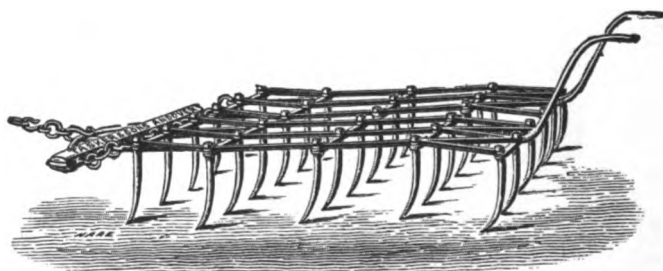
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Harrows, Drags, and Cultivators for all  
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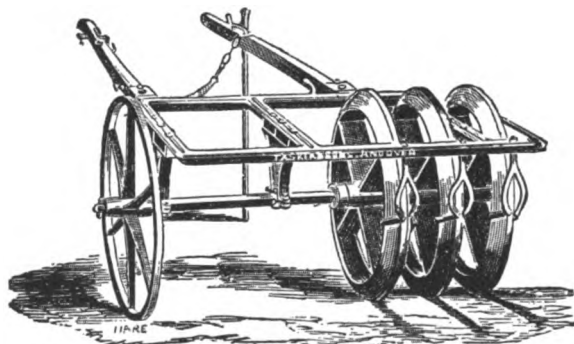


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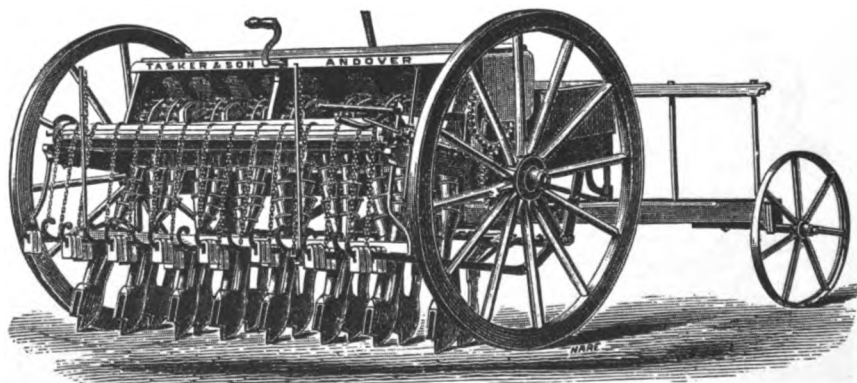
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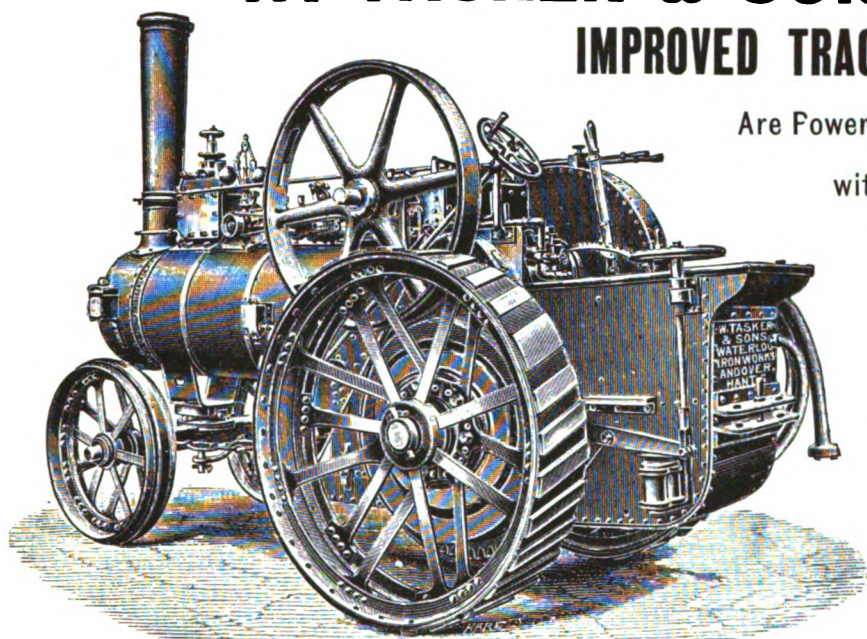
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Are Powerful, Simple, Efficient,  
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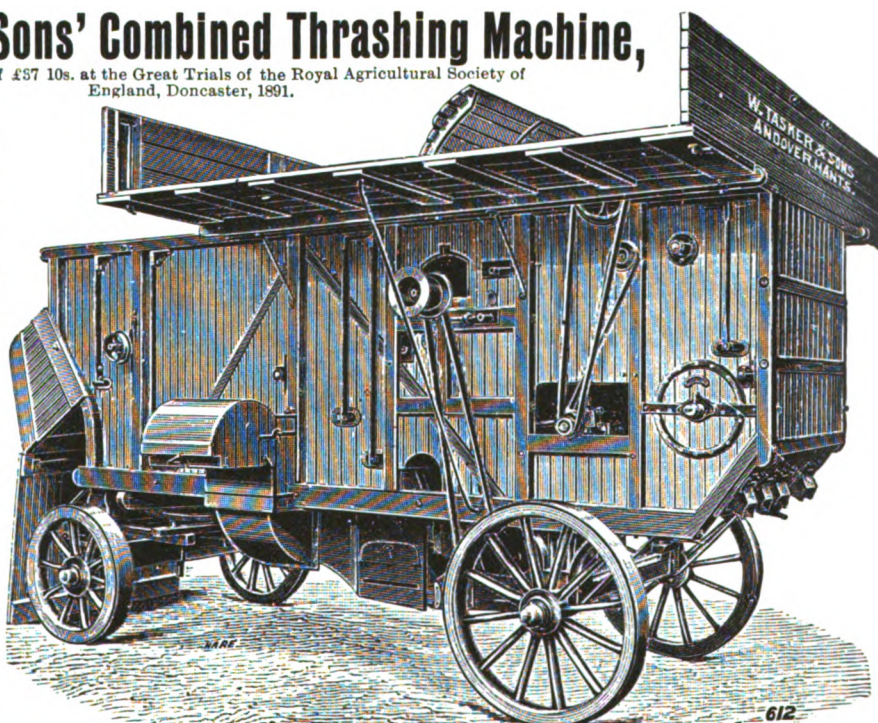
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66 "	..	—	160

Chaff bagging £5 extra.

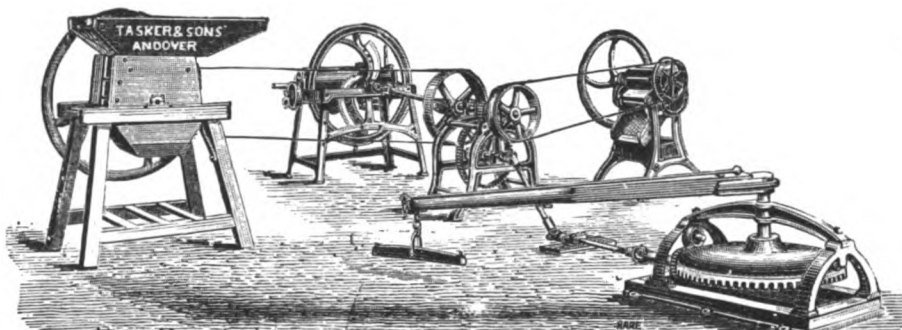
**WATERLOO IRON WORKS, ANDOVER, HANTS.**



ESTD.]

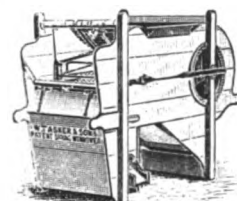
**W. TASKER & SONS'**

[1813.]



Chaff Cutters .. .. .	from	£2 0 0	upwards.
Turnip Cutters .. .. .	"	4 5 0	"
Horse Gears .. .. .	"	6 0 0	"
Intermediate Motions .. .. .	"	1 15 0	"

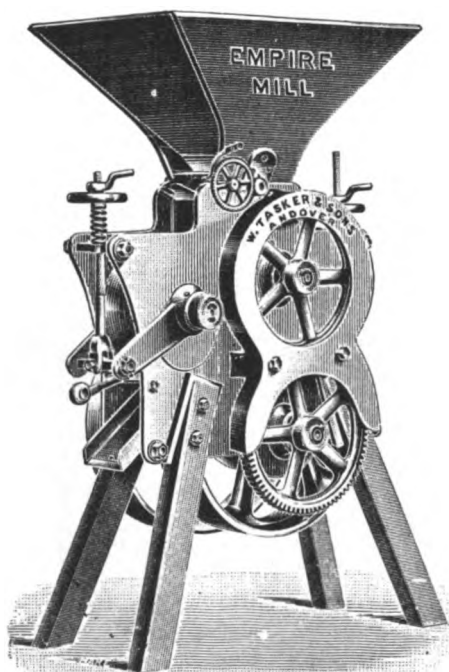
THE NEW PATENT  
"SPRING" WINNOWER.



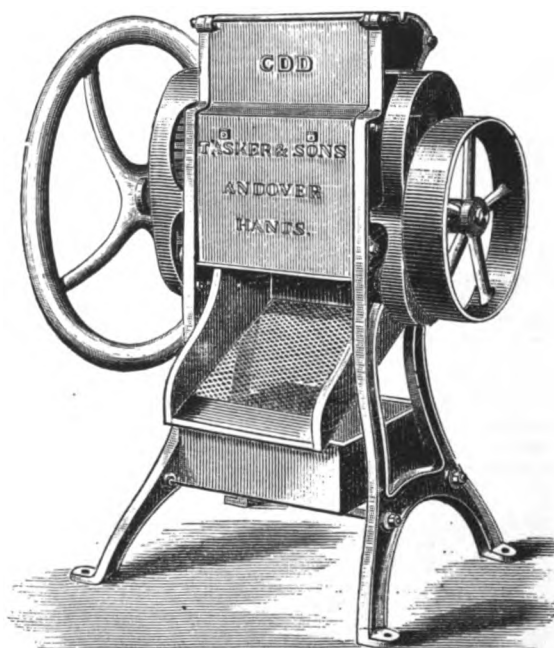
The above Winnower  
entirely dispenses with  
seven wearing parts  
usually found in  
Winnowing Machines.

Prices from £8  
upwards.

Complete Installations of Barn Machinery, also the remodelling of Corn Mills, Flour Mills, &c.  
Competent Men sent to all parts for Repairs.



WRITE FOR  
CATALOGUE  
OF GRINDING,  
CRUSHING,  
AND  
KIBBLING  
MILLS, CHAFF  
CUTTERS,  
HORSE  
GEARS,  
CARTS,  
WAGGONS,  
HORSE RAKES,  
SHEPHERDS'  
AND  
KEEPERS'  
HOUSES,  
TIMBER  
BOBS,  
CARRIAGES,  
&c., &c.



No. 11 will crush 20 to 30 Bush. of Oats per hr.	£10 10 0
" 10 " 60 " " "	17 10 0
" 9 " 80 " " "	20 0 0

Will Crush or Kibble, or both together.

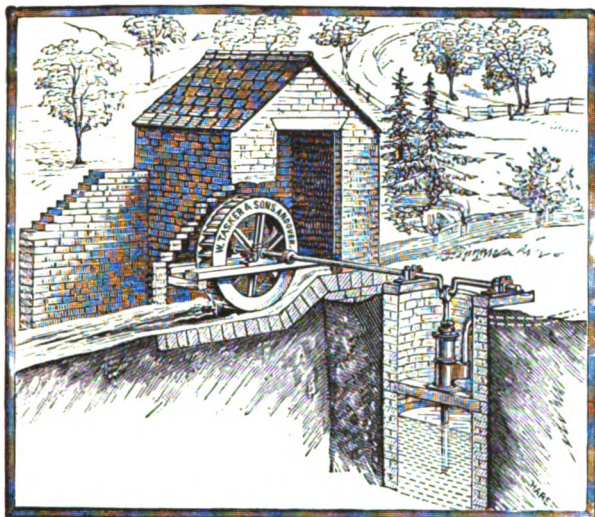
CDD Double Roll Cake Mill, with Brass Bearings to Fly-wheel Spindle, 16 in. wide .. ..	£8 0 0
CBB Single Roll Cake Mill, 12 in. wide .. ..	3 3 0
CEE " " " 17 in. " .. ..	3 15 0
Brass Bearings to Fly-wheel Spindle to CBB or CEE, extra 4s. 6d.	

**WATERLOO IRON WORKS, ANDOVER, HANTS.**

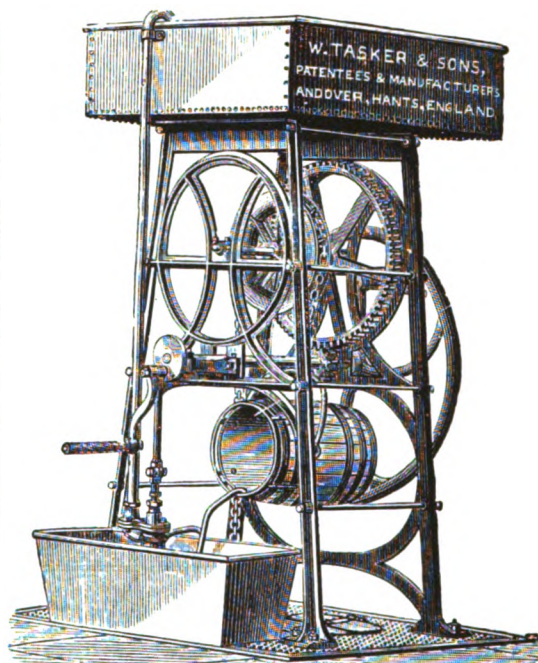
ESTD.]

**W. TASKER & SONS'**

[1813.

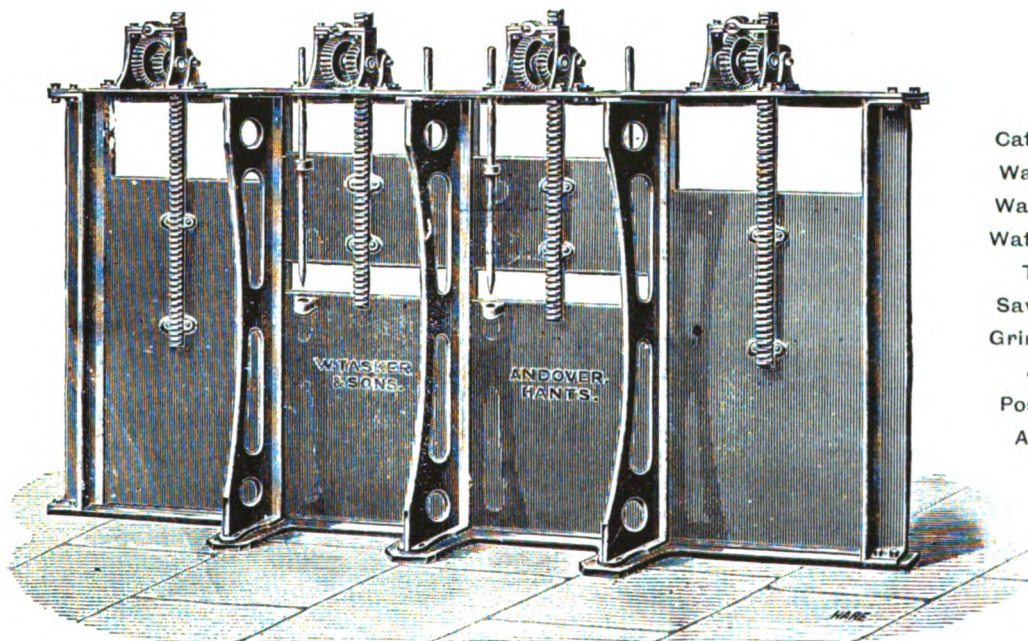


Clients waited on by appointment, plans made, and Estimates given for Water Supply to Mansions, Pumping, Heating Apparatus, development of Wind or Water Power, Iron or Wood Hatches, and General Horticultural and Estate work.



The most simple and efficient means of raising water from deep wells.

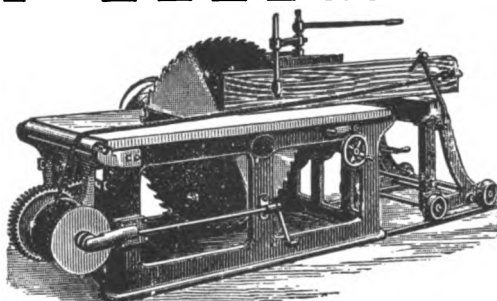
Prices from £11 upwards.



Catalogues of  
Water Carts,  
Water Tanks,  
Water Wheels,  
Turbines,  
Saw Benches,  
Grinding Mills,  
&c., &c.,  
Post Free on  
Application.

**WATERLOO IRON WORKS, ANDOVER, HANTS.**

# E. S. HINDLEY.



ENGINES,  
BOILERS,  
CHAFF CUTTERS,  
MILLS,  
SAW BENCHES, ETC., for  
**FARMS AND ESTATES.**

---

## **ELECTRIC LIGHTING ENGINES AND MACHINERY.**

---

DAIRIES FITTED THROUGHOUT.

---

## **PUMPS.**

---

LONDON STORES and SHOW-ROOMS:

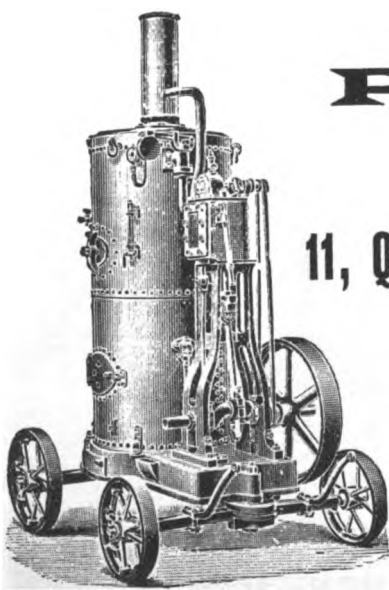
**11, Queen Victoria Street, E.C.**

Works:

*BOURTON, DORSET.*

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Full Information Free  
on Application.



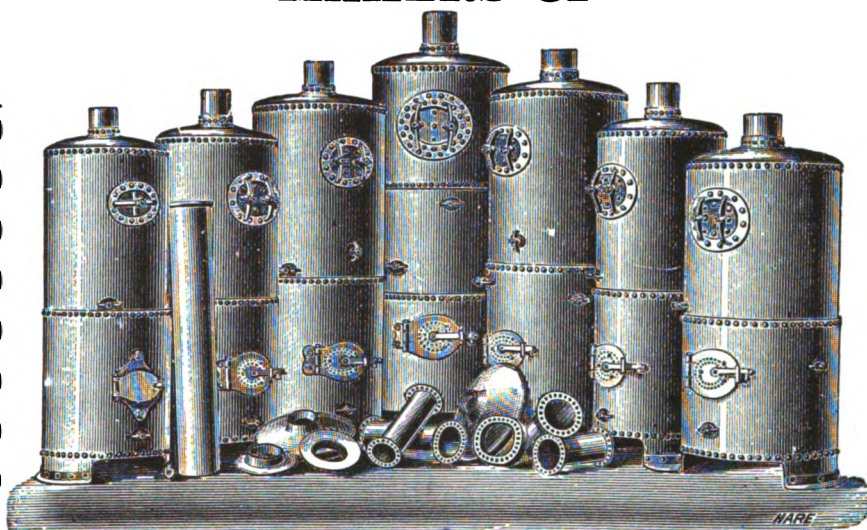


# ABBOTT & CO., NEWARK-ON-TRENT,

## MAKERS OF

### VERTICAL BOILERS.

	£ s.
2-h.p.	23 10
3-h.p.	26 0
4-h.p.	33 0
5-h.p.	36 0
6-h.p.	44 0
8-h.p.	56 0
10-h.p.	68 0
12-h.p.	80 0



### CORNISH BOILERS.

	£
4-h.p.	52
6-h.p.	70
8-h.p.	83
10-h.p.	90
12-h.p.	110
15-h.p.	130
18-h.p.	145
20-h.p.	160

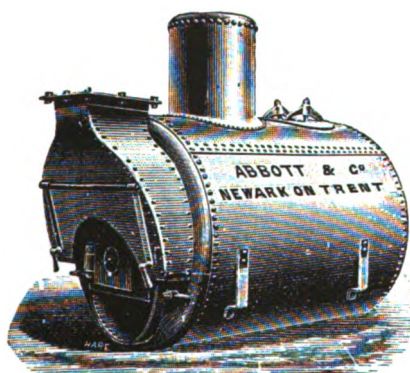
## VERTICAL BOILERS

OF EVERY SIZE AND DESCRIPTION IN IRON OR STEEL.

BOILERS AS ABOVE, 2 TO 12-H.P. ALWAYS IN STOCK.

## PORTABLE, MARINE, & LANCASHIRE, BOILERS.

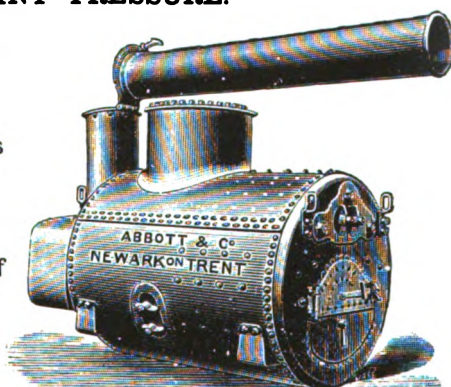
TO SPECIFICATION FOR ANY PRESSURE.



LAUNCH BOILER.  
RETURN TUBE TYPE.

New Fire-Boxes  
for  
Portable Engines

Designs given  
for every type of  
Launch and  
Cutter Boilers.



LAUNCH BOILER.  
ADMIRALTY CUTTER TYPE.

*Illustrated Price Lists on Application.*

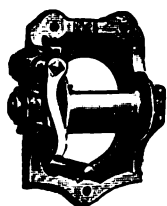
**OVER 3,500 BOILERS MADE BY US FOR ALL PARTS OF THE WORLD.**

Telegraphic Address:—"ABBOTT, NEWARK."



# ABBOTT & CO., NEWARK-ON-TRENT,

## MAKERS OF THE "HANDY" HOIST.



No. 1.

**No. 1.**

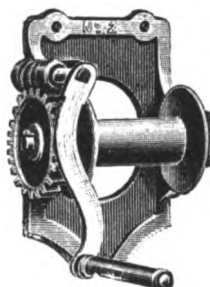
Size 16 in. × 12 in. × 10 in. from wall, with a 2½ in. × 6 in. barrel.

This size requires 10 revolutions of the handle to 1 revolution of the barrel. Allowing 40 revolutions of the handle it will lift a weight not exceeding 5 cwt. about 3 feet per minute. It cannot run down without the handle being turned.

This machine is especially adapted to Carriage-houses for lifting waggonette heads, Laundries, Breweries, &c., &c.

**PRICE .. .. £1 5 0**

Suitable Bolts for fixing to 9 in. wall, 8s. 6d. per set. Suitable Wire Rope, 6d. per foot.



No. 2.

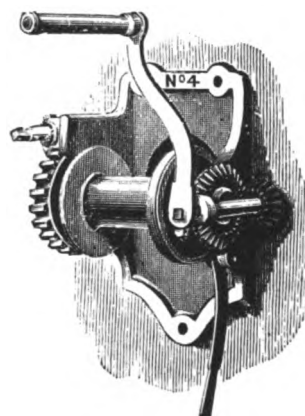
**No. 2.**

Size 24 in. × 18 in. × 16 in. from wall, with 4 in. dia. × 10 in. barrel.

This size requires 31 revolutions of the handle to 1 revolution of the barrel. Allowing 42 revolutions of the handle it will lift a weight not exceeding 10 cwt. 2 feet per minute. It cannot run down without the handle being worked, and it is consequently very well adapted for lifting fragile goods, pianos, glass and china, printers' type, stones, &c., &c.

**PRICE .. .. £2 0 0**

Suitable Bolts for 9 in. wall, 5s. per set. Suitable Wire Rope, 8d. per foot. Suitable Chain, 8d. per foot.



No. 4.

**No. 4.**

Size 24 in. × 22 in. × 16 in. from wall, with 3 in. × 9 in. barrel.

This is the special "Handy" Hoist, and the cheapest lifting apparatus out. On the left-hand side is the worm-and-wheel gear, giving great power (up to 10 cwt.) with slow speed, and on the right-hand side, quick speed, capable of lifting 3 cwt. 13 feet per minute, and of lowering by brake, if desired.

A most useful machine for a Farm-house, in the Stable, in the Slaughter-house, in the Wood-yard, or the Granary, it will be found invaluable.

**PRICE .. .. £3 5 0**

Suitable Bolts for 9 in. wall, 5s. per set. Suitable Wire Rope, 6d. to 8d. per foot. Suitable Chain, 8d. per foot.

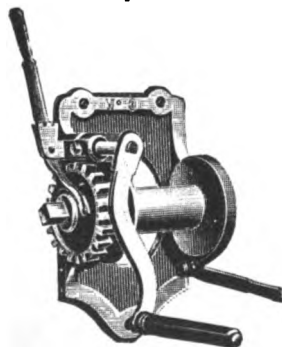
**No. 3.**

Size 24 in. × 18 in. × 16 in. from wall, with 4 in. × 9 in. barrel.

This size requires 21 revolutions of the handle to 1 revolution of the barrel. Allowing 42 revolutions of the handle, it will lift a weight not exceeding 10 cwt. 2 feet per minute. The weight can either be lowered by the handle if great care is needed, by the brake if speed is desirable.

**PRICE .. .. £2 10 0**

Suitable Bolts for 9 in. wall, 5s. per set. Suitable Wire Rope, 8d. per foot. Suitable Chain, 8d. per foot.



No. 3.

**Nos. 5 & 6.**

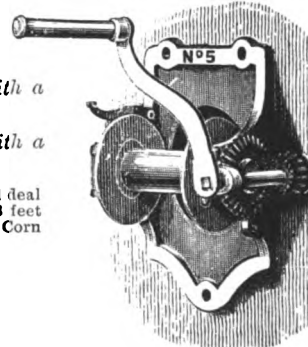
No. 5.—Size 24 in. × 18 in. × 16 in. from wall, with a 4 in. dia. × 10 in. barrel.

No. 6.—Size 16 in. × 12 in. × 10 in. from wall, with a 2½ in. × 6 in. barrel.

These two sizes are made with quick gear only, and will deal with weights of 3 cwt. each. No. 5 lifts 2½ stone sacks, at 13 feet per minute, with ease, and is most useful for Bakers, Millers, Corn Merchants and Farmers.

**PRICE, No. 5 .. .. £2 5 0**

„ No. 6 .. .. £1 5 0



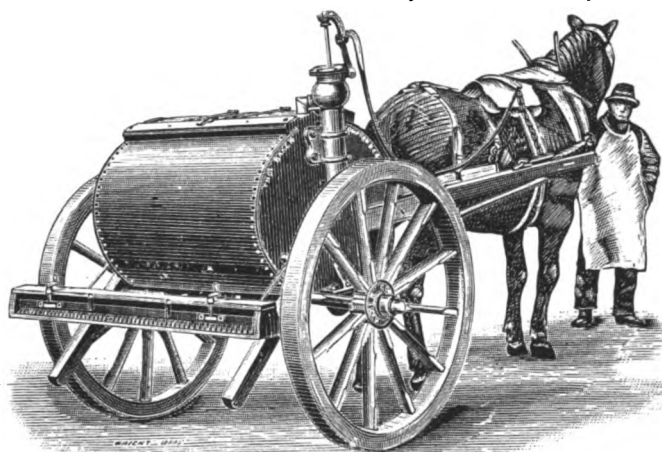
Nos. 5 &amp; 6.

Special Cheap Jib Cranes also supplied to work with our Hoists.

**PRICES AND TERMS ON APPLICATION.**

# BAKER'S CARTS, for Water or Liquid Manure.

**Awarded GOLD, SILVER, and BRONZE Medals.**



This Cart is strongly made, the body of wrought and the ends of cast iron, mounted on wood wheels, provided with valves instead of taps, to prevent danger in frost. May be fitted with improved Distributor which allows the liquid to pass freely; easily removed when the cart is required for other purposes. The axle is fixed underneath the centre which renders it self-balancing, thereby making the draught equal to one horse, and is well adapted for a hilly country. Spreaders can also be fitted for Street and Road Watering.

A simple arrangement is made for attaching a Pump with vulcanized India-rubber suction, allowing a lad to fill it with ease. There are two stays behind to prevent its being tipped over.

Gallons.									
95, on 24-in. cast wheels	...	...	...	...	...	...	...	...	...
130, on 3-in. cast wheels	...	...	...	...	...	...	...	...	...
130, on 4-in. wrought wheels	...	...	...	...	...	...	...	...	...
130, on 4-in. wood wheels	...	...	...	...	...	...	...	...	...
180, on 4-in. wood wheels	...	...	...	...	...	...	...	...	...

£10 10 0  
12 0 0  
14 10 0  
14 5 0  
17 2 6

Gallons.									
180, on 4-in. wrought wheels	...	...	...	...	...	...	...	...	...
225, on 4-in. wood wheels	...	...	...	...	...	...	...	...	...
<i>Pumps and Distributors extra.</i>									
4-in. Pump and 12-ft. Hose	...	...	...	...	...	...	...	...	...
Liquid Manure Distributor	...	...	...	...	...	...	...	...	...

£17 10 0  
20 0 0  
4 5 0  
1 17 6

## BAKER'S PORTABLE BARROW PUMP.

### PRICES.

Improved pump, with 4-in. Barrel, **£4 10s.**

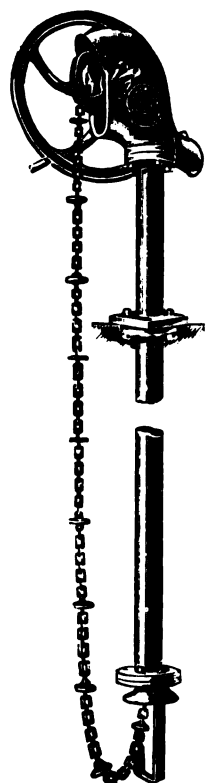
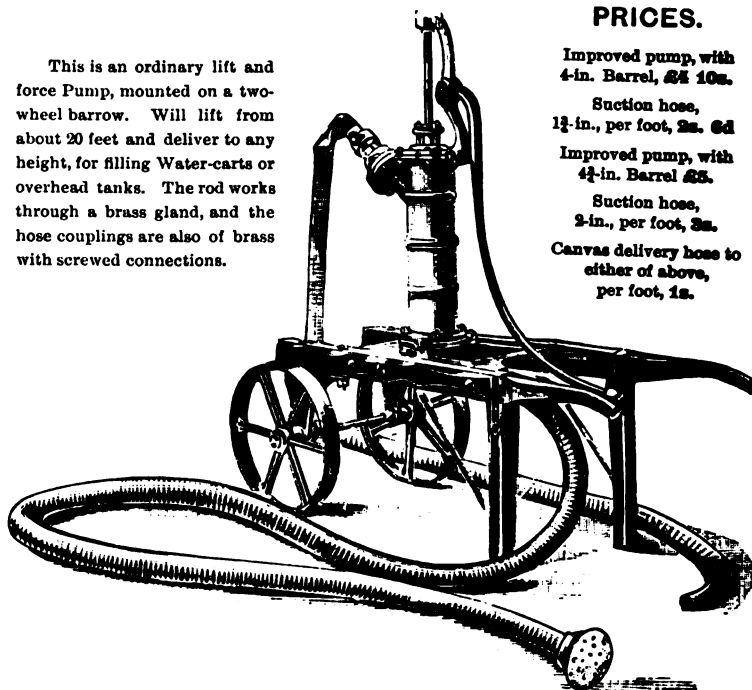
Suction hose, 1½-in., per foot, **2s. 6d**

Improved pump, with 4½-in. Barrel **£5.**

Suction hose, 2-in., per foot, **2s.**

Canvas delivery hose to either of above, per foot, **1s.**

This is an ordinary lift and force Pump, mounted on a two-wheel barrow. Will lift from about 20 feet and deliver to any height, for filling Water-carts or overhead tanks. The rod works through a brass gland, and the hose couplings are also of brass with screwed connections.



## BAKER'S CHAIN PUMP.

For Vertical Lifts from 15 to 30 feet.

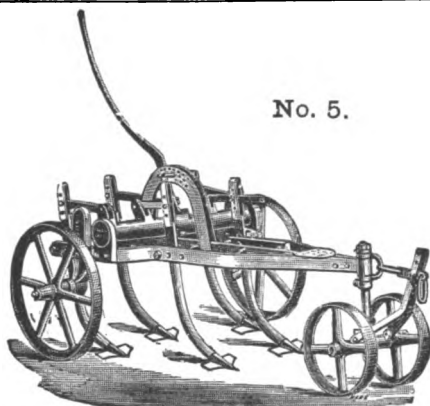
This Pump is best for lifting clear water, liquid manure, or other liquids with solids, suspended. Very simple and durable; no clogging in work, or affected by frost. Recommended for filling Water-carts from ponds or cesspools. Can be made any length required.

	Prices for 12 Feet	Under Spout.	Extra length, per ft.
	Diameter	Gallons per hour.	
No. 3 Pump	24	1,500	3 9
No. 3 "	30	2,500	4 0
No. 4 "	3½	4,000	5 10 0

**THOS. BAKER & SONS, Compton, BERKS.**

# COLEMAN & MORTON,

## London Road Iron Works, CHELMSFORD.

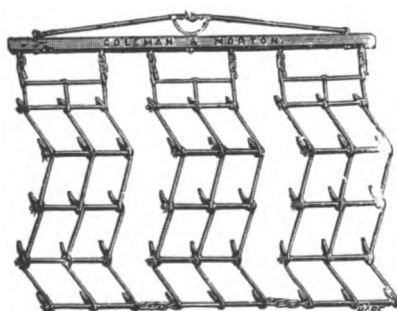


No. 5.

### PATENT PRIZE CULTIVATOR.

Won upwards of 200 FIRST PRIZES.

PRICES.			
		£	s. d.
No. 15,	with 5 Prongs, Light ... ..	6	15 0
No. 5b,	with 5 Prongs, " ... ..	7	10 0
No. 5,	with 5 Prongs, strong ... ..	8	0 0
No. 6,	with 5 Prongs, very strong ... ..	8	15 0
No. 7,	with 5 Prongs and Side Levers ... ..	9	15 0
No. 8b,	with 7 Prongs, for Light Land ... ..	10	10 0
No. 8c,	with 9 Prongs, for Light Land ... ..	11	0 0
No. 8,	with 7 Prongs, very strong ... ..	11	0 0
No. 9,	with 7 Prongs and Side Levers ... ..	13	10 0

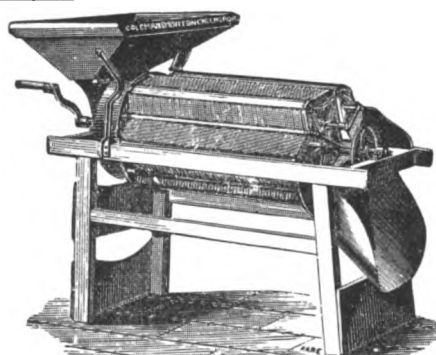


### IMPROVED JOINTED FOLDING HARROWS.

Can be Folded Singly for convenience in travelling.

PRICES.			
		£	s. d.
Set of 3 Harrows,	7 ft. 6 in., marked S. X. 1, weight 1½ cwt.	4	0 0
Set of 3	7 ft. 6 in., " S. X. 1A, extra strong	4	10 0
Set of 3	8 ft. 3 in., " S. X. 2, weight 2 cwt.	4	10 0
Set of 3	8 ft. 3 in., " S. X. 2A, extra strong	5	5 0
Set of 4	10 ft. " S. X. 3, weight 3½ cwt.	5	0 0
Set of 4	10 ft. " S. X. 3A, extra strong	5	17 6
Set of 4 Light SEED Harrows,	7 ft. 6 in., with straight teeth, marked L. S. 1.	3	10 0

Street Watering Carts, Tumbler Sanitary Carts,  
Patent Road Sweeping Machines, Hand Water Carts,  
Hop Syringing Machines, Malt Screens, Oil-Cake  
Mills, Prize Potato Diggers, Horse Pitchforks, &c., &c.



### PATENT ADJUSTABLE ROTARY CORN SCREEN.

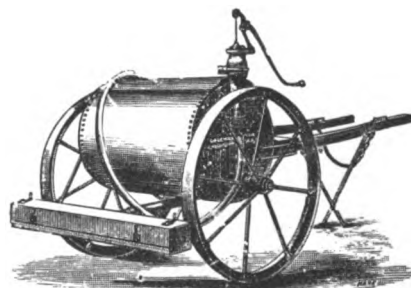
To Farmers, Maltsters, and Brewers, this screen is invaluable.

Awarded Fourteen Silver Medals.

First Prize at the Sydney Exhibition, 1880.  
First Prize at the Melbourne Exhibition, 1881.  
First Prize at the Adelaide Exhibition, 1887.  
First Prize at the Melbourne Exhibition, 1893.

PRICES.			
		£	s. d.
3 ft. Cylinder, to Screen 60 Bushels Wheat per hour	...	14	0 0
4 ft. " " 80 " " "	...	18	10 0
5 ft. " " 100 " " "	...	23	0 0
6 ft. " " 125 " " "	...	28	0 0
7 ft. " " 150 " " "	...	33	10 0

If with Stone Separator, £1 extra.



### IMPROVED WATER OR LIQUID MANURE CART.

First Class Medals at the Paris, Sydney, Melbourne and Adelaide Exhibitions.

PRICES.			
		£	s. d.
Donkey Cart, 60 gallons	...	9	10 0
Pony Cart, 80 gallons	...	11	10 0
Small size, 100 gallons	...	13	15 0
" " 130	...	14	15 0
Medium size, 150 gallons	...	16	0 0
Large size, 190 gallons	...	17	0 0
Wood Wheels instead of Iron, extra	...	1	0 0

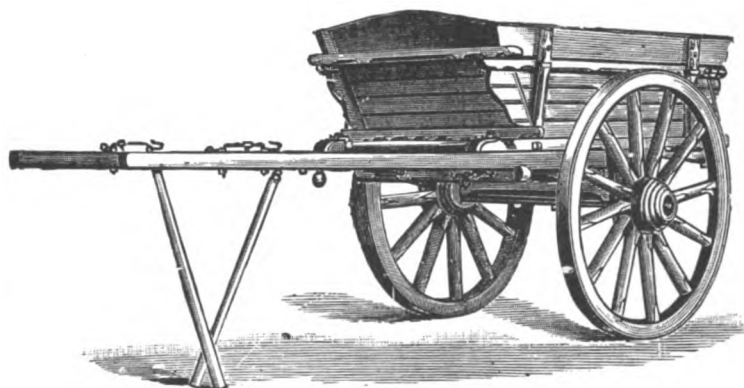
If with Cast Rim Wheels, 20/- less.

#### Extras.

Portable Pump, 2½ in. bore, for 60 and 80 gall. Carts	...	2	0 0
Portable Pump, 3 in. bore, for 100 and 130 gall. Carts	...	2	10 0
Portable Pump, 4 in. bore, for 150 and 190 gall. Carts	...	3	10 0
Indis-rubber Suction Hose	per ft.,	£0	2 0 to 2 9
Liquid Manure Distributors	...	£1	10 0 to 1 18 0
Iron Spreaders for Water	...	£1	15 0 to 2 0 0

CATALOGUES FREE ON APPLICATION.

### IMPROVED ONE-HORSE CART.



To carry 25 cwt.  
Tire  $4'' \times \frac{1}{2}''$  - £15 10s.

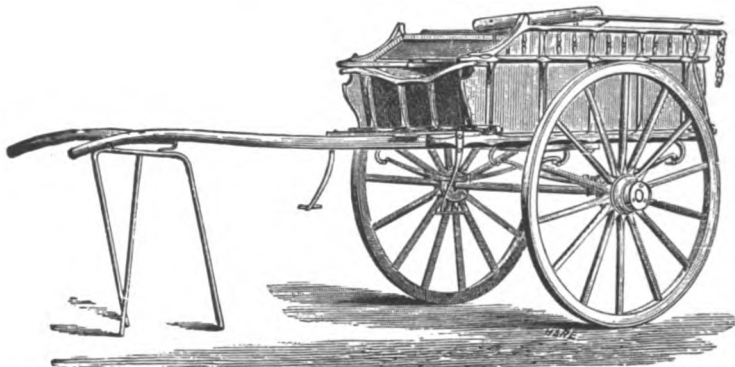
To carry 30 cwt.  
Tire  $4\frac{1}{2}'' \times \frac{5}{8}''$  - £17 10s.

**Crosskill's Carts, Waggon, Market Carts, Cattle Carts, Water Carts, Tumbler and Sanitary Carts, Timber Carriages, Bone Mills, &c., &c.**

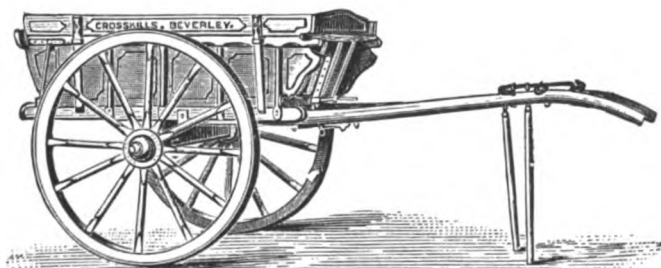
### CROSSKILL'S IMPROVED SPRING MARKET CART.

To carry 10 cwt. £18 10s.  
*With Mail Patent Axle.*

To carry 15 cwt. £19 10s.  
*With Mail Patent Axle.*



## WM. CROSSKILL & SONS, CROSSKILL'S YORK PATTERN CART. Beverley.



Suitable for Light Horses and Ponies.

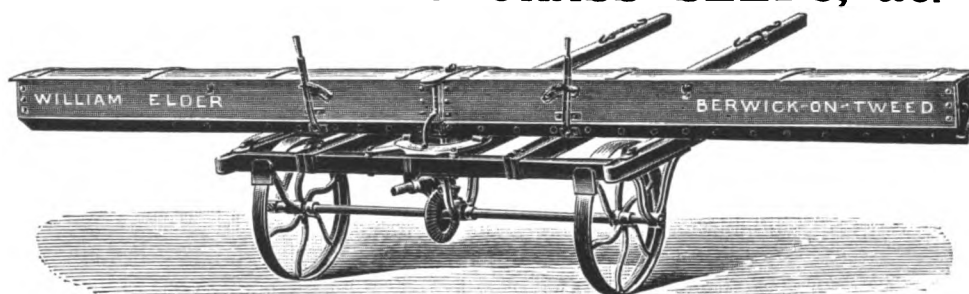
To carry 15 cwt.  
Tire  $2'' \times \frac{1}{2}''$  - - - £13 10s.

To carry 20 cwt.  
Tire  $4'' \times \frac{1}{2}''$  - - - £14 15s.

ILLUSTRATED CATALOGUES FREE ON APPLICATION.

# WILLIAM ELDER'S

## CELEBRATED BROADCAST SOWING MACHINES, FOR GRAIN AND GRASS SEEDS, &c.



This block represents my newly **IMPROVED BROADCAST SOWING MACHINE**, the particulars of which are as follows, and is one of the best Machines of the kind in the Market:—It has only one Seed Box, which is all bolted together with cast-iron centres to keep it firm, and is lined with zinc in the bottom to run the seed into the seed holes. It is driven from the main shaft of the Machine, with upright shaft and bevel gear, and fitted with swivelling rings in centre. The Box is fixed right on centre of main shaft, so that there is no weight on the horse's back.

For passing through gateways, or going along roads, the Box swivels round on frame, and will easily pass through an eight feet gateway, none of the gearing being disconnected. These Machines are constructed of the very best materials and workmanship, being all properly gauged and made to templates. Special care is also taken in fitting and setting the Discharge Pinions, which is of the greatest importance for the regular distribution of seeds.

**PRICES**—Machine to Sow 12 ft. **£11 10s.**; 14 ft. **£11 15s.**; 16 ft. **£12 0s.**; 18 ft. **£13 0s.**  
**CARRIAGE PAID.**

**This is the Machine for giving universal satisfaction.**

*Report by one of the Judges of Implements at the Northumberland Society's Show, held at Alnwick.*

SOUTH ACOMB, STOCKFIELD-ON-TYNE.

There were Drills of great merit exhibited, such as are used for Sowing Grass Seeds Broadcast. One such Drill, made by Mr. ELDER, I have particularly in my mind. Broadcast Drills simply scatter the seeds and have no coulters to deposit it in the soil, hence their draught is extremely light. They are, therefore, made of considerable length and cover a wide breadth, so wide that they cannot be got through ordinary gateways, or along narrow lanes. In their early days the construction and make of Broadcast Drills was clumsy and flimsy, but the one to which I am referring, was in its construction and finish, really a beautiful machine. When travelling, the seed box occupied a position nearly parallel with the limbers. To change the box from its sowing position to that for travelling is the work of a few seconds—simply swing it round on its centre and secure it by a couple of pins. Its return to sowing position is of course quite as readily effected. **ALTOGETHER, THE DRILL WAS IN EVERY RESPECT AS COMPLETE AS IT COULD BE.**

WM. TROTTER.

### Testimonial out of many received.

Mr. W. ELDER, Berwick-on-Tweed.

DEAR SIR,

HOWDEN, JEDBURGH, SCOTLAND.

9th April, 1893.

I have now had a fair trial of the Broadcast Sowing Machine I bought from you some time ago. We measured the first two acres of land and the seed so as to get the machine set to the thickness we wanted; after that it finished 53 acres without ever being touched again, and there was not a quarter of a bushel of seed left over. I have sown with four other Sowing Machines from different makers, and I find this Machine of yours superior to any of them. The points where I find it superior is in having plenty of speed, most equal in the discharge holes, which makes equal distribution, and the divisions in the seed box make it quite equal to the side-lands on hilly land, the end holes not running empty; while two of the best points about the machine is the simplicity of the gearing, as you can turn it at the ends without stopping, and at the same time without any waste of seed; besides, putting it either into working or travelling position is only the work of a couple of minutes. **Altogether, the Machine is as near perfection as there is any need for, and I wish I had had it years ago.**

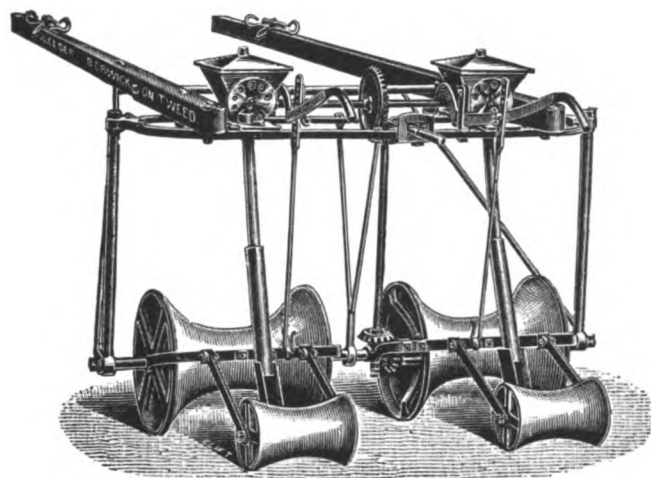
I am, yours respectfully,  
JOHN DAYKINS.

**Also Manufacturer of Improved Drill Rollers, Harrows, Turnip and Mangold Sowers, Turnip Cutters, Slicers,  
Hay Racks, Mowers and Reapers, Wide Open Light Draft Sheaf Binders, Scufflers, &c.**

**PRICE LISTS POST FREE. SPECIAL TERMS TO SHIPPERS.**

**WILLIAM ELDER, TWEEDSIDE IMPLEMENT WORKS. BERWICK-ON-TWEED.**

# WILLIAM ELDER'S TURNIP & MANGOLD SOWER.



This Double Drill Turnip and Mangold Sower is fitted with a brass cup pinion, revolving inside of each hopper, which delivers the seed through a disc perforated with a number of holes to regulate the quantity sown. The disc can be shifted to any hole by easing the nut in the centre, and turning it round to the number that may be required.

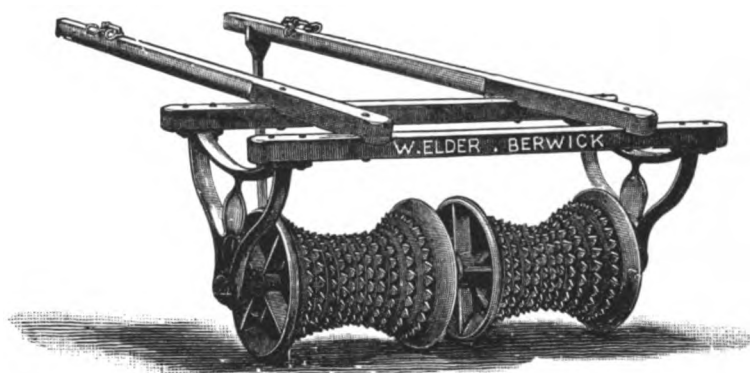
This Machine is adapted to sow ten different quantities of Turnip Seed, besides Rape and Mangold. The Machine can be thrown out of gear by a simple lever always at the command of the driver.

When necessary to empty the hoppers, it is simply done by easing the set screw in the bottom of the hopper, and drawing the slide through to one side, and placing a bag beneath, when the seed will be at once removed. The advantages claimed for this Machine are: SIMPLICITY, STRENGTH, DURABILITY, NON-CUTTING OF SEED, and REGULAR and CONTINUOUS DELIVERY.

Price .....	£6	0	0
With Back Rollers .....	extra	0	10 0

CARRIAGE PAID.

## IMPROVED DRILL ROLLER.



This Drill Roller is constructed in separate sections on an ingenious and durable adaptation of the principle of the Cambridge Roller, and exercises an equal and uniform pressure on the drill, not leaving the dung uncovered on the surface. Is self-adjusting to any size or width of drill, and has proved effectual in breaking up the crust or cake so apt to form over new-made drills after heavy falls of rain, preventing the free braird of the plant, especially in the case of Turnip, Mangold, and Potato Drills. The increasing demand for these Celebrated Drill Rollers (thousands of them being now in use), together with the many Testimonials received, and Prizes awarded, are conclusive proofs of their efficiency.

Price ....	£5	15	0
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CARRIAGE PAID.

**WILLIAM ELDER, TWEEDSIDE IMPLEMENT WORKS, BERWICK-ON-TWEED.**

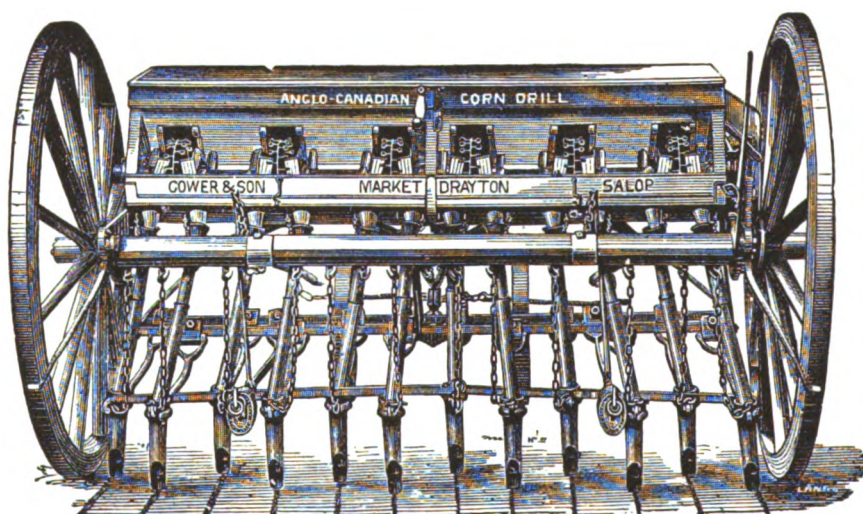


ROYAL AGRICULTURAL SOCIETY'S  
PRIZE CORN AND SEED DRILLS,  
MANUFACTURED BY  
**A. W. GOWER & SON,**  
BRITANNIA WORKS, MARKET DRAYTON

**GOWER & SON'S**

Royal Prize

Turnip, Mangold, and Carrot Drills, with Manure Apparatus for either Ridge or Flat work.



**GOWER & SON'S**  
Royal (Leeds, Plymouth, and Bedford)  
Prize Suffolk Corn Drills, Turnip and Mangold  
Drills, Clover and Rye Grass Drills, and Patent  
Garden and Patching Drills.

**GOWER & SON'S**  
**NEW TWO-HORSE ANGLO-CANADIAN CORN DRILL.**

The above engraving represents our New Two-Horse Anglo-Canadian Corn and Seed Drill, for either light or heavy land.

It has been awarded since its introduction Eighteen Gold and Silver Medals, at various Agricultural Shows.

The great advantage in this Drill is, that it can be worked with two horses and one man, as easily as the ordinary Drill can with four horses and two men.

The remarkable saving in labour is partly effected by the reduced weight of the Drill itself, but principally from the coulters being constructed for lifting and cutting their way through the soil without pressure, therefore dispensing with the heavy and cumbersome weights usually used on the ends of the levers.

The coulters are made of solid cast-steel, with hard wide cutting points, and when worn, loose hard steel tips are supplied at a very small cost. These points make a wide firm seed bed, which is far preferable to the narrow glazed groove made by the Suffolk Drill. Sharp cutting coulters are supplied when fancied.

The levers are easily raised from the ground with one hand, when turning at the ends; and the self-acting gear stops the feed at the same time, which, on their being lowered, goes on again.

The delivery of the seed is by cups, the same as in their Suffolk Drills, and to ensure a uniform delivery to the cups, the pigeon-hole slides are raised alike at one time.

It is fitted with reversible Barrel for sowing Turnips, Mangold, and Grass Seeds, without extra charge.

The levers are of steel, strongly made, and are adjustable to any width, and are placed on two equalising bars, which arranges the coulters so as to admit large clods to pass without clogging.

A very simple press is attached, which is very useful in case the ground is very hard, so that in an instant you can put the whole weight of the Drill on the coulters. This is also very convenient for greasing the wheels.

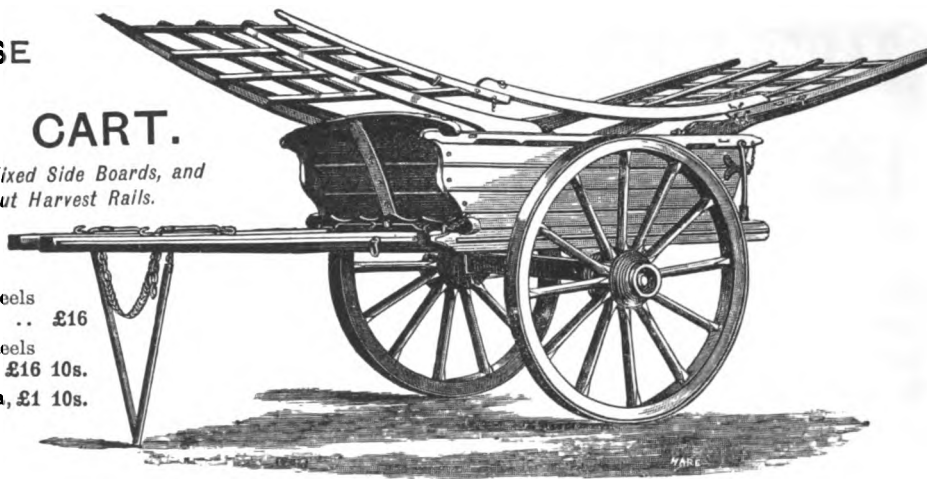
It is generally fitted with single movable shafts for a pair of horses abreast, but can be fitted with double shafts, or with pole, or with our Patent Fore Carriage Steerage.

Illustrated Catalogue and Prices on Application.

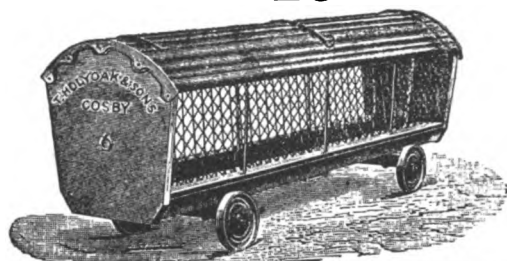
## ONE HORSE PLANK SIDE FARM CART.

*With Portable or Fixed Side Boards, and  
with or without Harvest Rails.*

- No. 1, with 4 in. Wheels  
and 2½ in. Arms .. £16  
No. 2, with 4½ in. Wheels  
and 2½ in. Arms .. £16 10s.  
Harvest Raths, extra, £1 10s.



## "ECLIPSE" SHEEP RACK.



This Rack is the simplest constructed, most durable, and best in the market. The top is Galvanized Iron, and the ends are protected by circular iron plates; the lid is hung on wrought iron hinges, and opens in the centre the full length of the Rack, it fastens itself by a hasp underneath as it is raised for filling, and cannot get out of order. There is a large space for hay or chaff in the Rack, and the bars are arranged to form a **Diamond-Shaped Mesh**. The troughs are bevelled for corn and roots to fall to the centre.

**PRICE**—for Feeding 24 Sheep, £4 8s. 6d.

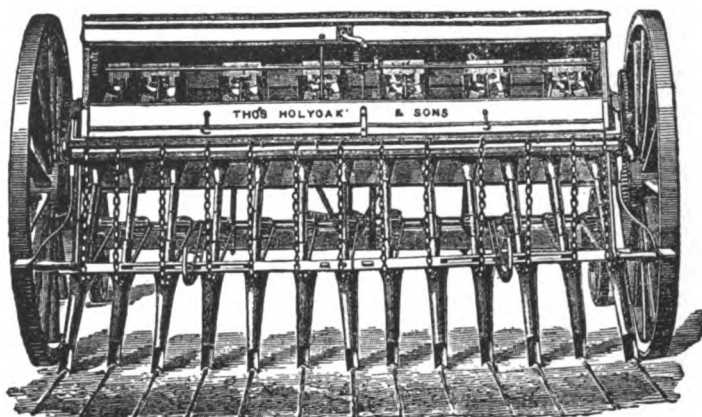
## TWO HORSE STEEL LEVER CORN AND SEED DRILL.

This Drill is suitable for either light or heavy land, and can as easily be worked with two horses and one man as an ordinary Drill with four horses and two men. The Levers are Steel, and the Coulters are fitted with **Steel Reversible Shoes**, made to cut their way through the soil without pressure. They are easily replaced at a small cost when worn short.

Sharp V-shaped Cutting Shoes for very stiff land are supplied when desired.

The Levers are easily raised from the ground and the seed stopped at same time.

It makes a first-class One Horse Drill for Turnips, &c., when fitted with Turnip Barrel.



Price with 11 Levers, 6½ in. apart, 5 ft. 11½ in. wide	..	..	..	..	..	£26	0	0
" " 12 " " 6 ft. 6 in. "	..	..	..	..	..	27	0	0
" " 13 " " 7 ft. ½ in. "	..	..	..	..	..	28	0	0

### EXTRAS.

Fore Steerage .. .. .	£5	5	0	Shafts for one horse or double .. ..	£20	15	0
Clover or Turnip Barrel, per wheel ..	0	5	0	Double Tins for Beans, per row .. ..	0	2	6

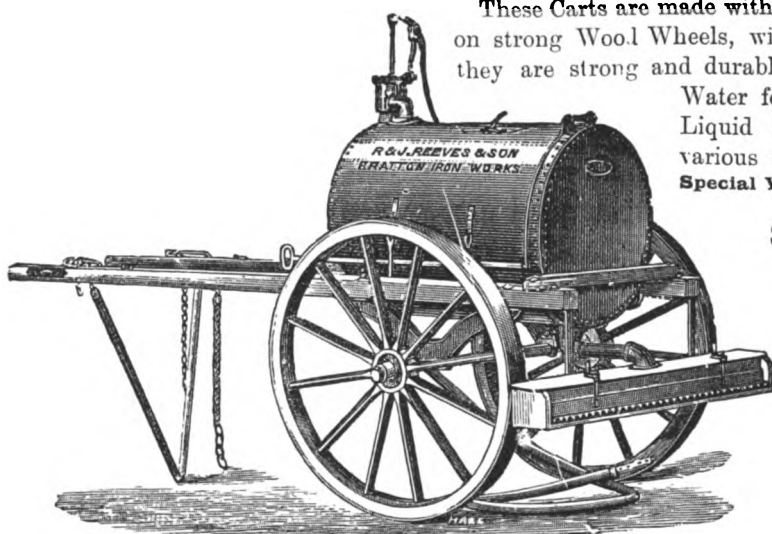
*Sent with pole unless otherwise ordered, but can be fitted with movable Shafts or Fore Steerage when required.*

# THOS. HOLYOAK & SONS, Narhereugh, near LEICESTER.

# REEVES'

## ROYAL AGRICULTURAL SOCIETY'S

# FIRST PRIZE WATER and LIQUID MANURE CARTS.



These Carts are made with Wrought Iron Barrels, mounted on strong Wood Wheels, with Axle underneath the Barrel; they are strong and durable, and well adapted for carting Water for all purposes, or spreading Liquid Manure. They are made in various sizes, from 100 to 200 gallons. **Special Water Carts for Steam Cultivation or Water Drilling.**

### SPECIAL WATER CART FOR STEAM ROLLERS.

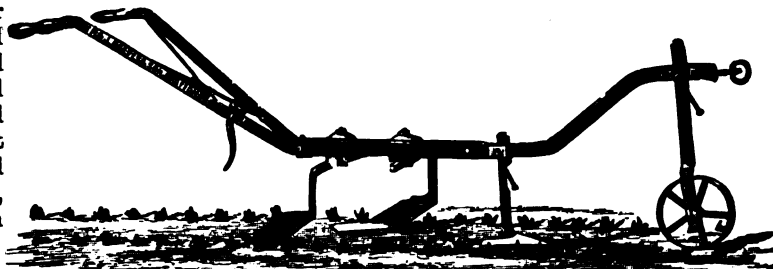
This Cart is made with extra strong Wheels and Axle, suitable for the rough work attending steam rolling. The delivery pipe is the proper height to fill tank of engine. It is fitted with valve to regulate the supply, and Wrought Iron Spreader to distribute the water.

### REEVES' IMPROVED CHAIN PUMPS.

These Pumps have no valves, and consequently will pump thick liquids. They are especially adapted for use in Brickyards, emptying Liquid Manure Tanks, filling Water Barrels, and all farm purposes. A larger amount of water can be raised than by any other Pump with the same power. They are very simple and durable, and are not in any way affected by frost.

### REEVES' NEW IMPROVED SINGLE ROW HORSE HOE.

These Hoes are adapted for cleaning between the rows of Beans and Roots. They are fitted with Reeves' New Improved Steel Side Blades, which can be worked close to the Plants without burying them. All Stems and Steel Blades are made uniform, so that when the Blades are worn they can be easily replaced.



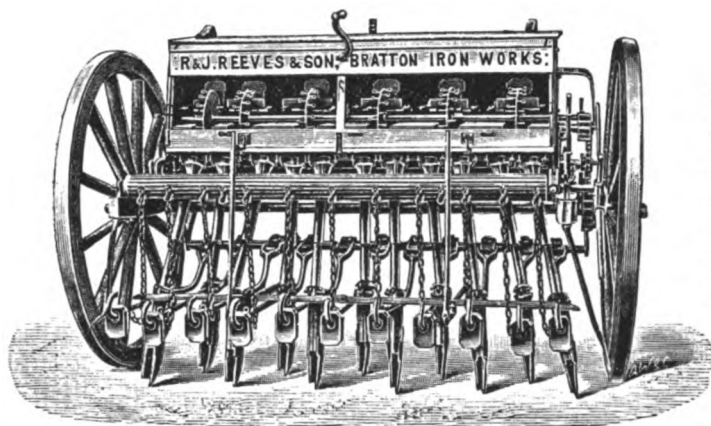
### REEVES' IMPROVED STEERAGE HORSE HOE.

For Hoeing Three rows of Mangolds, Turnips, Peas, Beans, etc. Fitted with Reeves' New Improved Side Hoe Blades.

Illustrated Price Lists on Application.

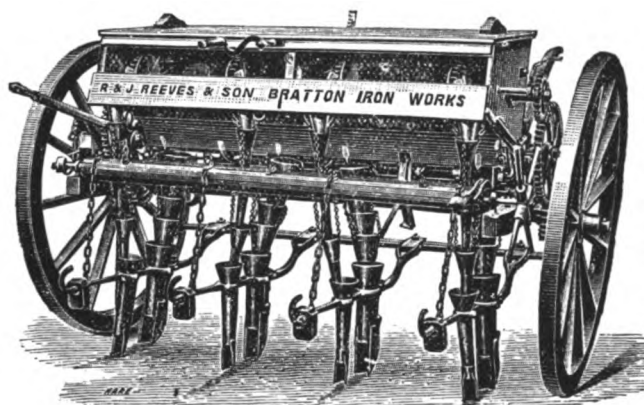
**R. & J. REEVES & SON, Bratton Iron Works,  
WESTBURY, WILTS.**

## REEVES' NEW IMPROVED LIGHT LAND CORN DRILLS.



**Improvements.**—These Drills are now made with all the New Improvements, similar to the General Corn Drills, viz., new arrangement for driving Corn Barrel, Patent Hoppers, Telescopic Tubes, Wrought Iron Levers, and Chilled Renewable Coulter Points.

## Reeves' New Patent Improved Economical Manure & Seed Drills, FOR SOWING ALL KINDS OF ARTIFICIAL MANURES WITH ROOTS.



These Drills have been greatly improved this season. They are now fitted with New Patent Oscillating Stirrer in the Manure Box which effectually feeds the manure regularly to the Delivering Barrel. It is so arranged that the Manure Barrel can be easily taken out and cleaned when required. The slides which regulate the quantity sown are set from behind, and can be regulated to sow any quantity from 2 to 30 bushels per acre.

*They are made in all sizes, and for both Ridge and Flat Work.*

## REEVES' NEW PATENT BROADCAST MANURE DISTRIBUTOR.

It is the most simple and the *cheapest* Distributor for distributing any quantity of Dry Artificial Manure. It will distribute *Guano* or any other Artificial Manure regularly, from Four to Eighty bushels per acre, and is superior to all others for *Top Dressing with Soot*.

**Specially adapted for sowing the new Basic Phosphate Powder.**

## Chandler's Liquid Manure, Corn and Seed Drills. BROADCAST SOWING MACHINE FOR CORN.

Reeves' Patent Corn Sower to fix on Plough for Sowing Beans and other Corn.

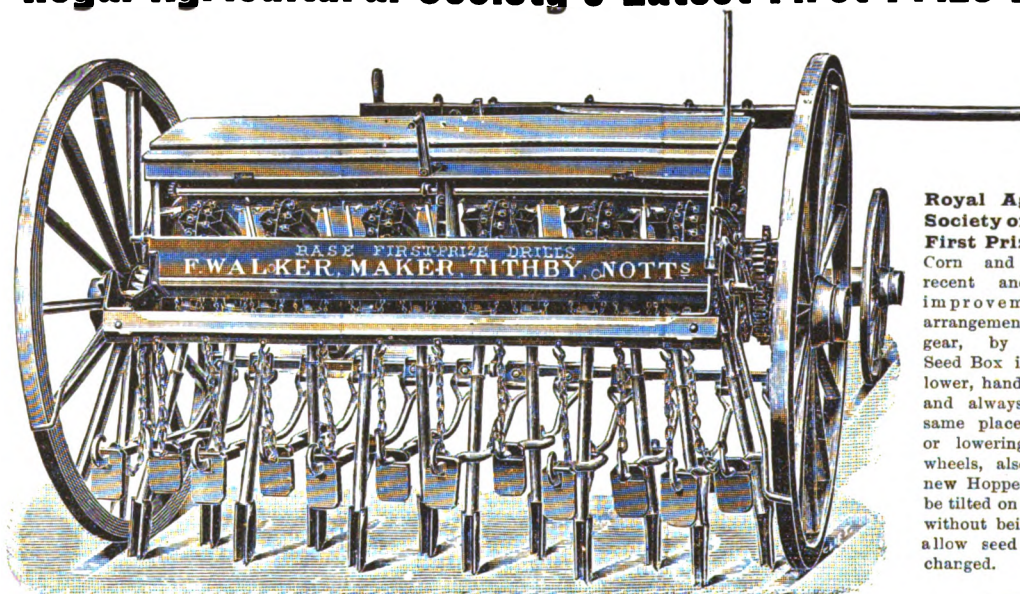
**Illustrated Price Lists on Application.**

**R. & J. REEVES & SON, Bratton Iron Works,  
WESTBURY, WILTS.**



# F. WALKER, TITHBY, NOTTS.

## Royal Agricultural Society's Latest First Prize Drills.



Royal Agricultural Society of England's First Prize Drill, for Corn and Seeds, with recent and additional improvements; new arrangement in cogging gear, by which the Seed Box is fixed much lower, handier for filling, and always remains in same place; no raising or lowering for change wheels, also fitted with new Hoppers, which can be tilted on one side, and without being taken out, allow seed barrel to be charged.

### SPECIMEN TESTIMONIALS.

Mr. WALKER, Sir,

Having three Steerage Corn Drills manufactured by you out of the five now at work upon my farms, I have no hesitation in strongly recommending them, as being well and simply constructed in all respects, and for quality and workmanship they cannot be surpassed. I shall most likely require another one in the spring.

The Grove, Cropwell Butler.

I remain, Yours faithfully,  
HENRY SMITH.

Mr. WALKER, DEAR SIR,

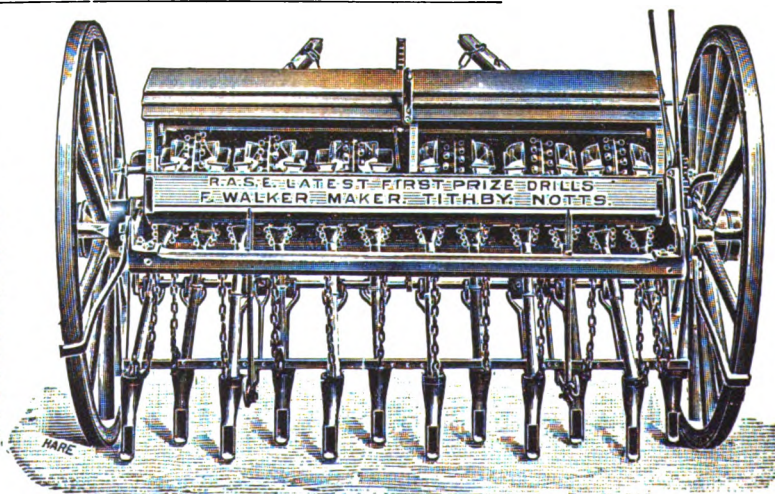
The Drill I purchased from you two years ago has given great satisfaction, and is the admiration of all the farmers in this Colony who have seen it at work. It is beyond doubt the most suitable implement for this Colony.

Yangan, Queensland, Australia, August 27th, 1898.

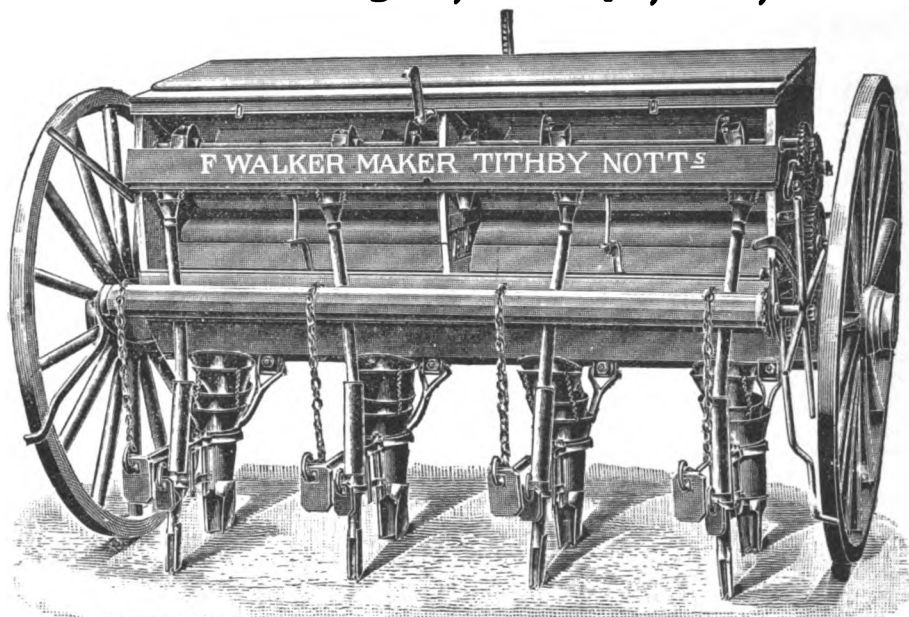
I am, Sir, Yours truly,  
DAVID MARSHALL.

## New Colonial Pattern Drill.

Retains best points of the R.A.S.E. First Prize Drills, and possesses additional advantages. Turn aside Hoppers, Colter Levers to which can be attached and interchanged, in a few minutes, either the American Hoe Colter or our superior English pattern; worked with or without press, and with or without weights. Has a new Lifting Lever, which at a stroke first stops the seed, then raises the Colters. Will drill all kinds of grain and seeds; works satisfactory on all soils, light or strong, and of light draught.



## Drill for Mangolds, Turnips, &c., with Manure.



Will deliver any required quantity of artificial manure, dry or damp, with the greatest regularity, and the variations can be quickly and easily done while Drill is at work. This Drill is light in working both for men and horses. The movement of one lever first stops the seed and manure, then raises the colters. The manure and seed are deposited through separate colters, as illustrated, injury from strong manures being thus avoided.

### CORN AND MANURE DRILLS.

Ask for lists, free by post.

**Mr. JOHN HOLWELL, Temuka, Canterbury, New Zealand, writes:—** "January 10th, 1893.

"I like the Drill very much, it sows the manure splendidly; I have sown some very wet manure with it, but it does not seem to make any difference to it. Some of the farmers waited a week and even a fortnight for my Drill because they would not have the trouble other Drills gave them. The grain comes up evenly; I like the Drill immensely."

**Mr. GEO. BROWN, Flintham, Notts., writes:—**

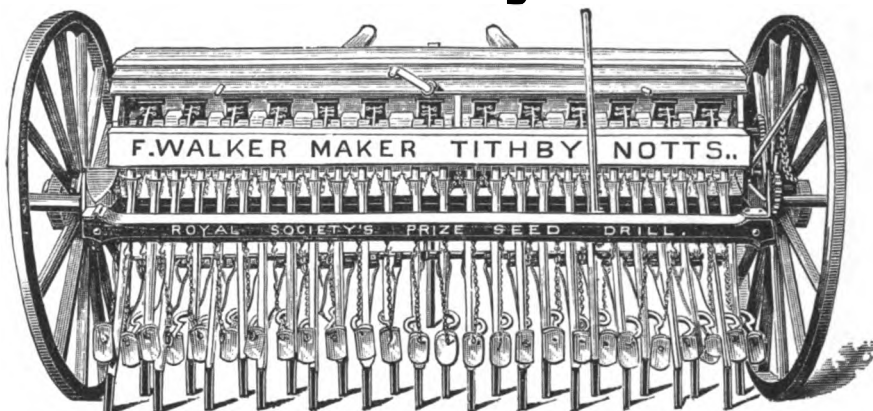
"January 28th, 1894.

"The Drill I had from you for sowing artificial manure with Turnips on the flat has given me every satisfaction, the Plain Rollers are quite as efficient as the ordinary sort of notched rollers, with much less complication. This last year was not a good year for Turnips, but the year before I had over 100 acres with scarcely a yard missed. We have used your Corn Drills now for many years, and have always found them extremely well made."

## R.A.S.E. Prize Clover Seed and Rye Grass Drill.

This class of Drill is now extensively used in preference to the old mode of broadcasting, the seed is deposited evenly, and with the greatest regularity and economy, and a better and more certain crop is the result. The rows are usually about three-and-a-half inches apart.

Drills, similar, but with larger box and slightly stronger for Corn and Clover seeds.



LISTS FREE.

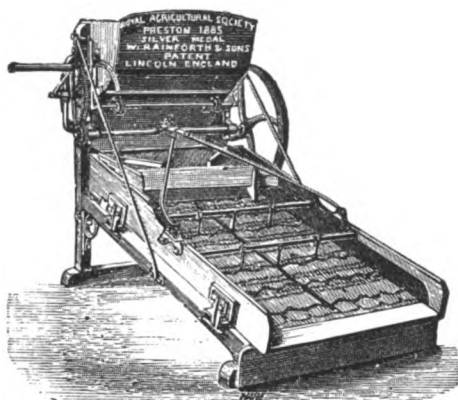
CATALOGUES, PRICES AND PARTICULARS FREE ON APPLICATION.

# F. WALKER, TITHBY, NOTTINGHAMSHIRE.



# W. RAINFORTH & SONS, BRITANNIA IRON WORKS, LINCOLN.

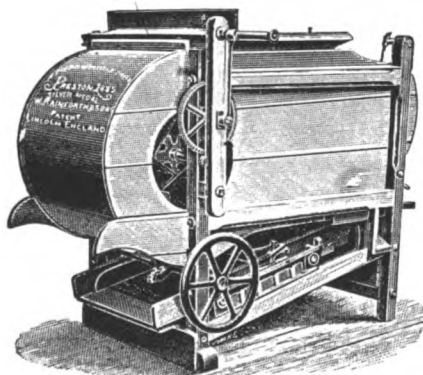
R.A.S.E.'s SILVER MEDALS—PRESTON 1885 and NORWICH 1886.



**PATENT  
ADJUSTABLE SELF-CLEANING FLAT CORN SCREEN.**  
**PRICES, &c.**

No.	Capacity per hour.	Length of Screen Bed.	Width of Screen Bed (fully open).	Extreme Width over Frame.	If fitted with Lifting Handles extra.	Price.
A 0	60 Bshls.	8ft. 6in.	1ft. 10in.	8ft. 0in.	10 6	9 9 0
A 1	90 "	8ft. 6in.	2ft. 8in.	8ft. 9in.	10 6	12 12 0
A 2	120 "	8ft. 6in.	3ft. 4in.	4ft. 8in.	10 6	18 18 0
A 3	160 "	4ft. 0in.	3ft. 4in.	4ft. 8in.	—	28 10 0
A 4	200 "	4ft. 6in.	4ft. 0in.	5ft. 4in.	—	40 0 0

Nos. 2, 3 and 4 are suitable for Steam or other Power.

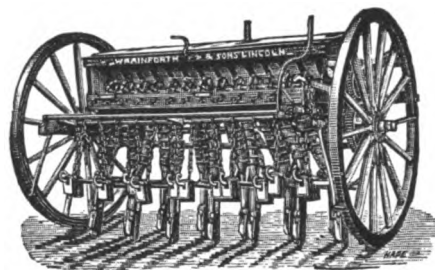


**PATENT ADJUSTABLE CORN  
DRESSING, SCREENING & WINNOWING MACHINE,**  
*Fitted with Patent Adjustable Self-Cleaning Flat Screen.*

**PRICES, &c.**

No.	Capacity per hour.	Length of Screen Bed.	Width of Screen Bed (fully open).	Extreme Width over Frame.	Size of Riddle in the Shoe of Dressing Machine.	Price.
F 1	50 Bshls.	2ft. 4in.	1ft. 10in.	8ft. 5in.	18in. by 20in.	16 0 0
F 2	75 "	2ft. 4in.	2ft. 2 1/2 in.	8ft. 10in.	18in. by 22in.	18 0 0
F 3	100 "	2ft. 11in.	2ft. 2 1/2 in.	8ft. 8in.	18in. by 24in.	21 0 0

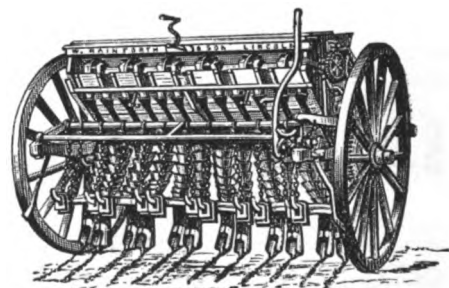
**CATALOGUES POST FREE.**



**CORN AND SEED DRILL.**

**PRICE.**

9-row, for Corn, &c., 6ft. 0in. wide ...	£23 0 0
10-row " 6ft. 6in. " ...	24 0 0
11-row " 6ft. 10in. " ...	25 10 0
12-row " 7ft. 2in. " ...	27 0 0
14-row " 8ft. 0in. " ...	29 0 0
16-row " 8ft. 6in. " ...	31 0 0
Fore Carriage Steerage ...	5 0 0
Waterproof Cover ...	0 12 6
Cylinders for Turnip Seeds, &c., from ...	1 10 0



**PATENT GENERAL PURPOSE DRILL.**

*For Corn, Seeds, Turnips, Mangold, and other Roots with Manure.*

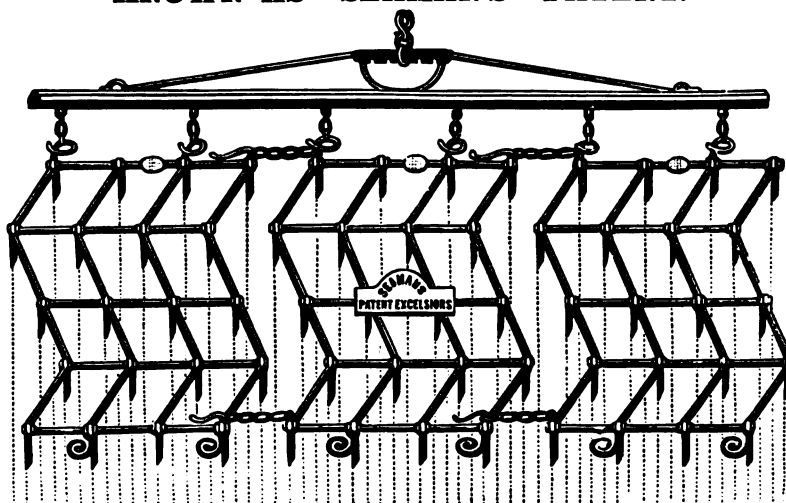
**PRICE.**

9-row complete, 6ft. 0in. wide ...	£39 0 0
10-row " 6ft. 6in. " ...	40 0 0
12-row " 7ft. 2in. " ...	42 10 0
14-row " 8ft. 0in. " ...	45 0 0

**Extras which may be added to the General Purpose Drill.**

Fore Carriage Steerage ...	£5 0 0
For an additional pair of Shafts ...	1 5 0
For D wide Tins, to hang under box to convey seed from two rows into one coulters, each ...	0 2 0
Improved Iron Press Bar ...	1 10 0
Seed Coulter and Conducting Tins behind the manure coulters, each ...	0 7 6
Waterproof Cover ...	0 12 6

# J. L. Larkworthg & Co.'s Patent "Excelsior" Harrows, KNOWN AS "SEAMAN'S" PATENT.



Upwards of Seventy Thousand of these are now in use and giving universal satisfaction. They have also gained 33 First Prizes at the leading Shows in the Kingdom.

## PRICES.

Harrows in Sets of Three, with Four Beams each (as engraving), 60 Teeth, with Whippetrees, complete.

MARK.		WIDTH. Feet.			WEIGHT. cwt. qr. lb.	CODE WORD.	PRICE.		
							£	s.	d.
X 15.	Seed Harrows ...	7	...	...	3 14	<i>Hack</i>	2	17	6
X 14.	For one horse ...	7½	...	...	1 0 0	<i>Hail</i>	3	3	0
X 13.	For one or two horses	8	...	...	1 1 14	<i>Hake</i>	3	10	0
X 12.	For two horses	8½	...	...	1 2 0	<i>Haven</i>	3	15	0
X 11.	For two horses	9	...	...	1 2 14	<i>Heel</i>	4	0	0
X 10.	For two or three horses	9½	...	...	1 3 21	<i>Helm</i>	4	12	6
X 8.	For three horses	10	...	...	2 1 0	<i>Herb</i>	5	0	0
X 7.	For four horses	10½	...	...	2 3 21	<i>Hinge</i>	5	15	0

Harrows in Sets of Three with Three Beams each, 45 Teeth, with Whippetrees, complete. These are exactly similar to foregoing, except that each Harrow has Three Beams instead of Four.

MARK.		WIDTH. ft. in.			WEIGHT. cwt. qr. lb.	CODE WORD.	PRICE.		
							£	s.	d.
X 14.	For one horse or pony	5 9	...	...	3 0	<i>Holly</i>	2	15	0
X 13.	For one horse ...	6 6	...	...	1 0 0	<i>Hood</i>	3	0	0
X 12.	For one or two horses	6 9	...	...	1 0 19	<i>Hop</i>	3	10	0
X 10.	For two horses	7 2	...	...	1 2 0	<i>Horn</i>	3	17	6
X 8.	For two horses...	7 6	...	...	1 2 21	<i>Host</i>	4	5	0
X 7.	For three horses	7 10	...	...	2 0 21	<i>Howl</i>	4	15	0
X 5.	For four horses	8 8	...	...	2 2 14	<i>Hulk</i>	6	17	6

Harrows in Pairs of Three Beams each, with 30 Teeth, made purposely for very heavy work.

MARK.		WIDTH. Feet.			WEIGHT. cwt. qr. lb.	CODE WORD.	PRICE.		
							£	s.	d.
X 5.	For three or four horses	6½	...	...	2 0 0	<i>Hussar</i>	4	12	6
X 3.	For four horses	7½	...	...	2 3 0	<i>Hutch</i>	6	12	6

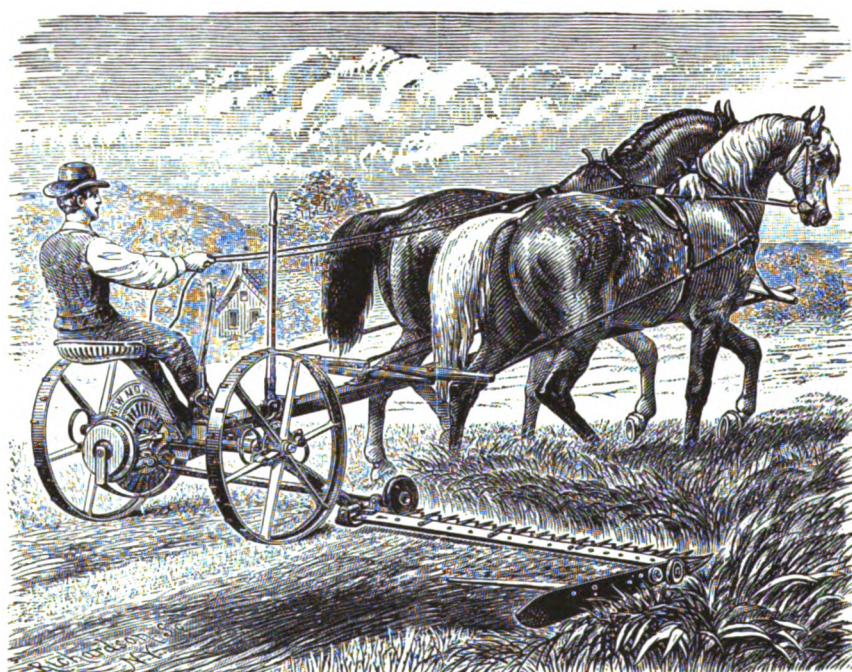
All these Harrows can be fitted with Patent Joints at the rate of 7s. 6d. per set of Four Beams.

CARRIAGE PAID.

# J. L. LARKWORTHY & Co., LOWESMOOR IRON WORKS, WORCESTER.

Telegraphic Address—"LARKWORTHY, WORCESTER."

APPLY FOR GENERAL ILLUSTRATED CATALOGUE.



## The "Adriance Buckeye" Two-Horse Mower, Size "D."

Has all the advantages claimed for the One-horse Mower, and in addition, can be used as a **Manual Delivery Reaper**, by the addition of the Manual Delivery Reaping attachment.

When the Machine is used as a Manual Delivery Reaper, the Tilting arrangement should be removed entirely.

The immediate success and great popularity secured by the original "Buckeye" when its great novelty first attracted attention have been retained and extended only by unceasing efforts after further improvements and perfection. The aim has always been to construct a better and higher type of Machine than was attempted by others, and that the Farmers have appreciated these efforts is evidenced by the steady increase in the sales.

The many hundreds of these Machines which, after a lengthened usage, still continue to do satisfactory work is a weightier argument in their favour than any specious claims made by manufacturers, who by their **FREQUENT CHANGES ACKNOWLEDGE THEIR PAST IMPERFECTIONS.**

As **Inferior** Machines have been offered as "Buckeyes," these Machines will all bear

**The Exclusive Trade Mark "ADRIANCE,"**

the use of which by anyone else will render them liable to prosecution.

*Delivered at any Railway Station.*

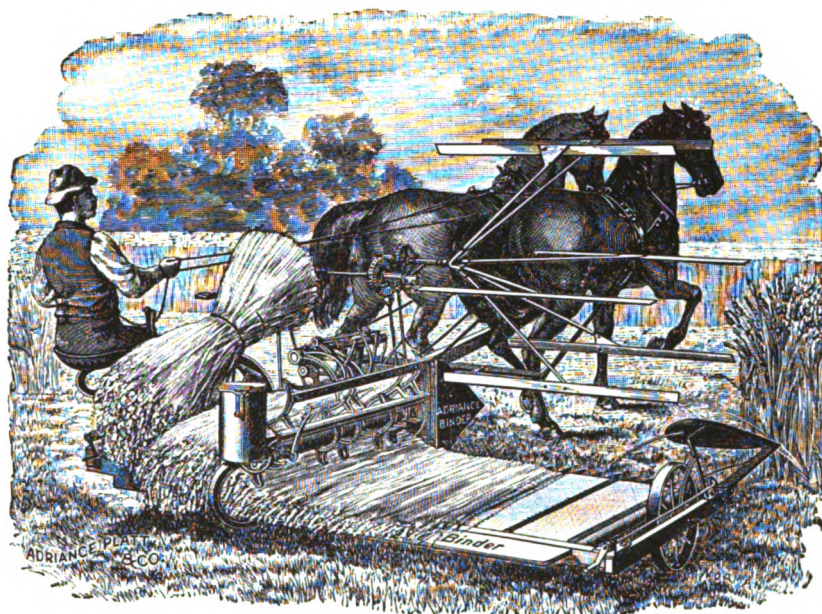
"ADRIANCE BUCKEYE" Two-Horse Mower	... 4 feet 8 inch cut	... <b>£17 10 0</b>
REAPING ATTACHMENT	... 4 feet 8 inch cut	... <b>3 0 0</b>
COMBINED MOWER & MANUAL DELIVERY REAPER	4 feet 8 inch cut	... <b>20 10 0</b>

Each Machine is furnished with Two Complete Knives, Two Extra Sections, Two Extra Guard Fingers, Rivets, Bolts, Screw Wrench, Punch, Cold Chisel, Oil Can, Whippletrees, and Collar Bar.

**EXTRA PARTS** are kept in stock, and can be supplied on receipt of order, and if properly described by their number are guaranteed to fit.

General Agents for Great Britain:

**J. & H. KEYWORTH & Co., 35, Tarleton St., LIVERPOOL.**



## The "Adriance" Rear Discharge Binder, WITHOUT CANVAS ELEVATOR.

WON 1891 and 1892, HIGHEST HONOURS IN EUROPE:

**ENGLAND.**—Silver Medal, Special Prize of the **Royal Agricultural Society of England.**

**FRANCE.**—(First Prizes) **Large Gold Medal**, in Field Trial at Mantes, near Paris, against 7 Canvas Binders. **The Gold Medal**, in Field Trial at Milly, July 2 and 3, 1892.

**GERMANY.**—Large Silver Medal for new Implements of the **German Agricultural Society**, Berlin.

**HUNGARY.**—Large Gold Medal and Special Prize of 1,000 francs in Field Trial at the **National Agricultural Society's Meeting** at Nyiregyhaza, July 8, 9, and 10, 1892.

The special features of the Adriance Binder are lightness, good proportion, even balance, simplicity, peculiar and limited elevation of the grain, and novel rear discharge of the bundle.

To those accustomed to the common type of Elevating Binder, the first view of the "Adriance" Binder in the field is a revelation in harvesting, and its work a marvel. While doing all the work of the large Binder, in appearance, draft, facility of management, and ease of operation, it suggests comparison with the light Single Reaper, rather than with the well-known cumbersome Binder.

Farmers should give their orders as early as possible if they wish to be assured of securing an "Adriance" Binder.

---

*Delivered at any Railway Station.*

**PRICE** ... (5 feet Cut) ... **£45 0 0**  
Transport Gear (if required) extra **£2.**

Each Machine is furnished with Two Complete Knives, Two Extra Sections, Two Extra Guard Fingers, Rivets, Bolts, Screw Wrench, Punch, Cold Chisel, Oil Can, and Whippetrees.

EXTRA PARTS are kept in stock, and can be supplied on receipt of order, and if properly described by their number are guaranteed to fit.

---

General Agents for Great Britain:—

**J. & H. KEYWORTH & Co., 35, Tarleton St., LIVERPOOL.**

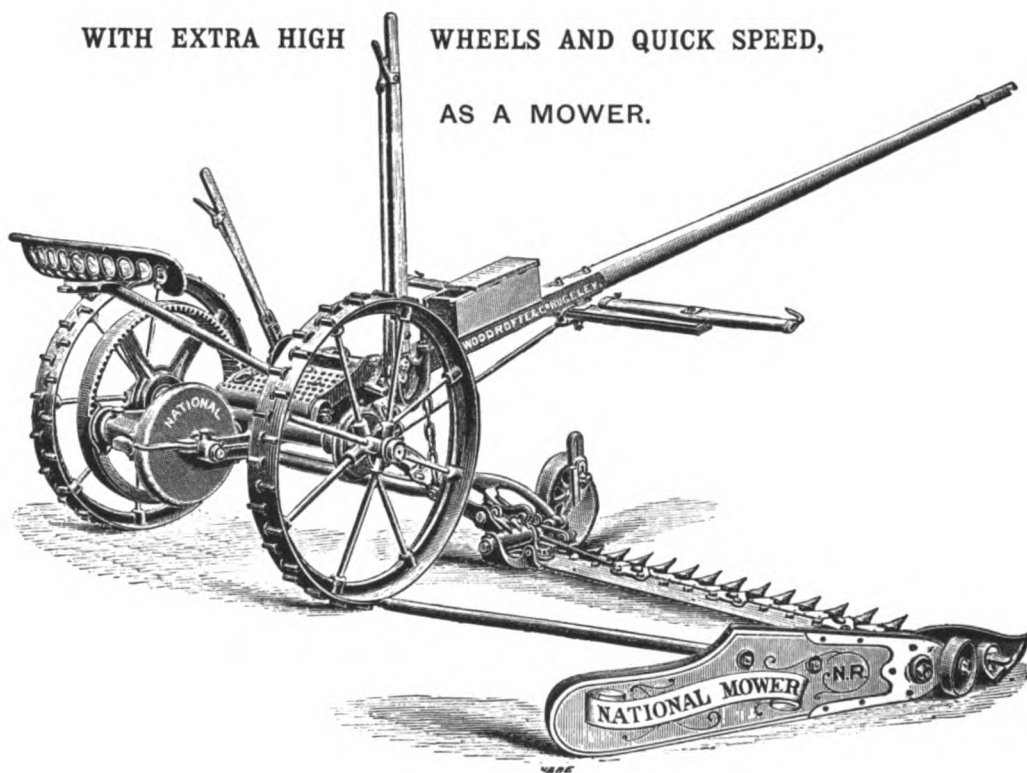


# WOODROFFE & CO.'S

## HIGHEST PRIZE

# 'National' Mowers and Reapers,

WITH EXTRA HIGH WHEELS AND QUICK SPEED,  
AS A MOWER.



These celebrated Machines were introduced in the year 1888, and soon made rapid strides into general favour. They have been thoroughly tested in various parts of the United Kingdom, with most satisfactory results. References can be given to many leading Agriculturists and the best known Implement Dealers, who will testify to their excellence and superiority. Anyone requiring a thoroughly reliable and efficient Grass Mower, or Combined Mower and Reaper, is strongly advised to try a "NATIONAL," which will be found to possess those essential qualities—**Strength, Durability, with Lightness of Draught.**

								£	s.	d.
N R	Two-Horse Mower, 4 ft. 8 in. Cut (Right Hand)	...	...	...	...	...	...	17	10	0
N L	Two-Horse Mower, 4 ft. 8 in. Cut (Left Hand)	...	...	...	...	...	...	17	10	0
	Reaping Attachments	...	...	...	...	...	...	2	12	6
N I	One-Horse Mower, 8 ft. 8 in. Cut (Right Hand)	...	...	...	...	...	...	15	0	0
	Reaping Attachments	...	...	...	...	...	...	2	10	0

*Each Machine is supplied with Two Knives and the usual extra parts.*

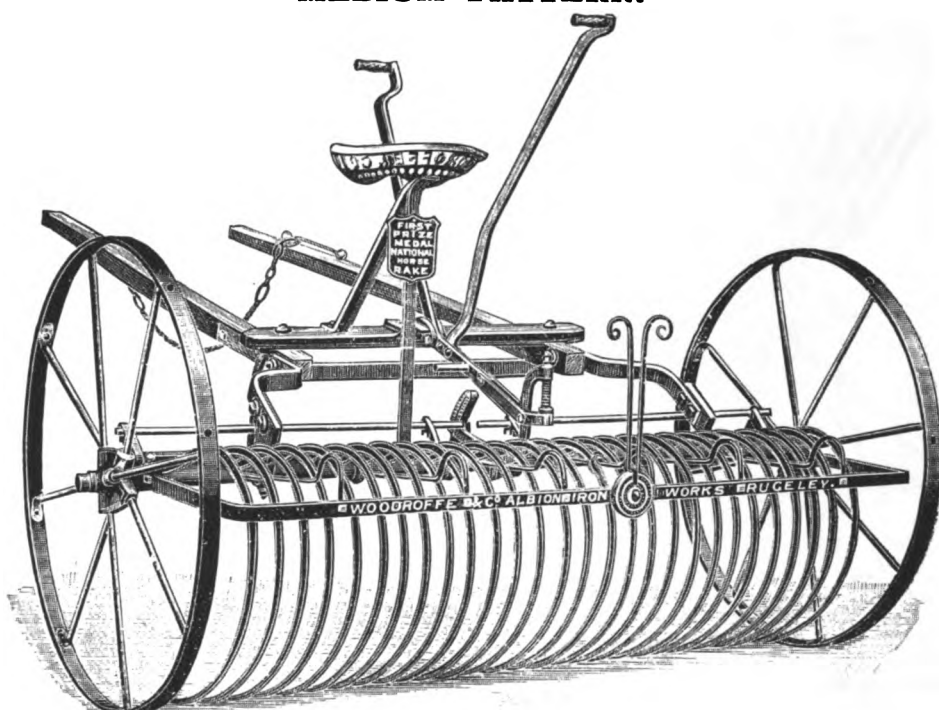
**WOODROFFE & CO., Albion Iron Works, Rugeley, STAFFS.**

# WOODROFFE & CO.'S

## HIGHEST PRIZE MEDAL

# 'NATIONAL' HORSE RAKE,

### MEDIUM PATTERN.



### IMPROVED AND STRENGTHENED FOR SEASON 1894.

This Horse Rake has been specially made to supply the demand for a strong and efficient Rake, at a low price. The greatest care has been observed in its construction, in order to obtain simplicity of parts and lightness, without sacrificing strength and durability.

The Rake has a very simple and effective arrangement for adjusting the teeth so that they can be readily set to rake any desired height or pitch. The Axle is very strong, and runs from end to end.

The Leverage is self-locking, extremely light in delivery, and may be actuated by the foot alone.

The Wheels are of wrought iron, with chilled bushes. The Tines are steel of improved section.

### PRICES AND DIMENSIONS.

(With Seat and Double Levers, as Illustrated.)

						£	s.	d.
J 6	24 Steel Tines, 50 in. Wheels, extreme width 7 ft. 6 in. ...	...	...	...	...	9	0	0
J J 6	26 Steel Tines, 50 in. Wheels, extreme width 8 ft. 0 in. ...	...	...	...	...	9	5	0
J 7	28 Steel Tines, 50 in. Wheels, extreme width 8 ft. 6 in. ...	...	...	...	...	9	10	0

THIS IS A STRONG AND THOROUGHLY RELIABLE HORSE RAKE.

## WOODROFFE & Co., Albion Iron Works, Rugeley, STAFFS.



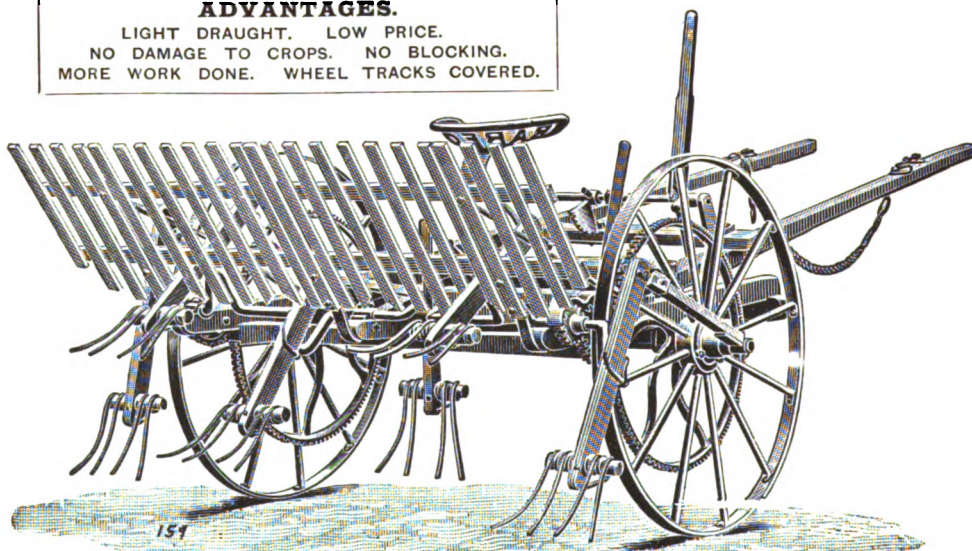
# BARFORD & PERKINS'

## "ANGLO-AMERICAN"

# HAY TEDDER.

### ADVANTAGES.

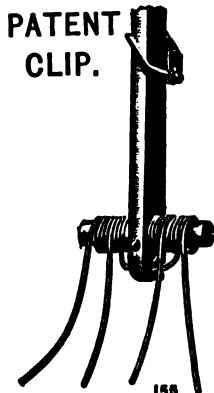
LIGHT DRAUGHT. LOW PRICE.  
NO DAMAGE TO CROPS. NO BLOCKING.  
MORE WORK DONE. WHEEL TRACKS COVERED.



No. 1.—FOR ORDINARY WORK. With Latest Patented Improvements for 1894.

Hay Tedding Machines have been largely used in America for some years, and the principal on which they work is now universally acknowledged by practical men to be the correct one. Their action is almost identical with that of the fork when turning hay by hand, and consequently they have great advantages over the ordinary Haymaker, as they knock the grass about less, and do not shake the seeds out; this is even more noticeable when dealing with *clover*, for which crop they are *specially adapted*.

BARFORD & PERKINS feeling confident of the value of this invention to the English Agriculturist, introduced in 1891 a Hay Tedder of improved and more durable construction, which they claim has all the advantages of the American Machines, and at the same time is strong enough to cope with the heaviest of English crops. The machine takes a width of seven feet, and as two of the forks work outside and behind the wheels, *no wheel tracks are left*. Though only *half the draught* of an ordinary Haymaker, it gets over more work and leaves the hay or clover in a better condition for drying.



**THE DOUBLE FORKS** are a great advantage in dealing with either light or heavy crops. They make much cleaner work than the single ones in all cases, and are strongly recommended.

**BARFORD & PERKINS' PATENT WIND-GUARD** (as illustrated) has now been attached to a large number of their Tedders and has proved to be of the greatest value. It effectually prevents the hay from being blown by the wind on to the working parts of the machine, and enables it to work without blocking, with the wind in any direction. This important adjunct is protected by Royal Letters Patent, and is only supplied by BARFORD & PERKINS for their own machines.

**BARFORD & PERKINS' PATENT BEARING CLIP.**—It was found last year that some breakages occurred with the wooden arms at the place where they were weakened by two bolt-holes passing through. To obviate this BARFORD & PERKINS have patented and are using this season a wrought-iron clip, which passes round the arm and secures it to the crank bearing, thereby strengthening the arm instead of weakening it.

### PRICES.

No. 1 Tedder, for ordinary work, with Double Forks	..	..	..	..	£13	13	0
No. 2 " " for uneven ground	..	..	..	..	13	13	0
New Patent Wind-guard, 15/- extra.							

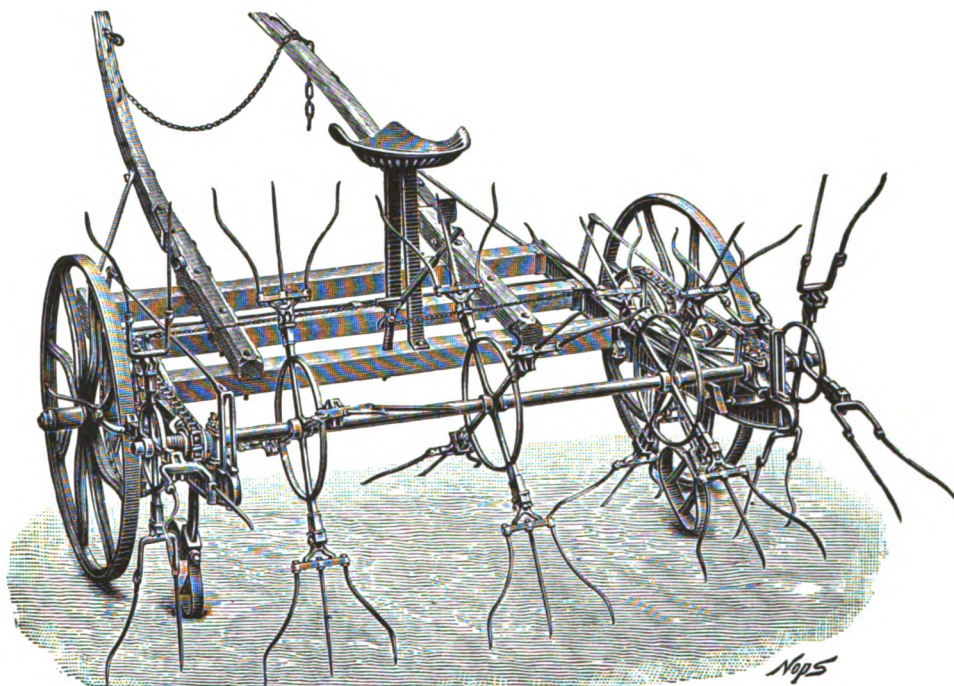
Carriage Paid to any Station in Great Britain and to the Irish Ports.

## BARFORD & PERKINS, PETERBOROUGH.

# NEW PATENT IMPROVED HAYMAKER

(MALLETT'S PATENT)

WILL TURN THE HAY BEHIND THE WHEELS.



**S**UPPLIES a long-felt want, viz. :—A Machine to turn up or throw out the grass or hay, pressed down by the travelling wheels, so that no hay can be left behind the wheels unmoved as with other machines.

It is very light in draught and can be comfortably worked by a strong pony, shaking up all the hay its full width, thereby getting over the land *nearly one-third faster* than most other machines, the same horse easily doing 25 to 30 acres per day. As will be seen from above, this new Patent Machine is constructed on a totally different principle to the ordinary machine, having many important improvements, amongst them being :—1st. That it clears the hay thoroughly behind the travelling wheels, turning and throwing it efficiently, which no other rotary machine does. 2nd. By an ingenious contrivance, the Machine passes over all grips or gutters without damaging it, interrupting the speed, or preventing the work being done. 3rd. A foot lever is placed at the side of the driver so that he can lift the tines well off the ground, and this is a very great advantage in turning at the end of the work, and when travelling on the road.

Amongst other general advantages claimed for the Patent are the following :—The tines are made similar to an ordinary steel hay-fork with separate spiral springs to each, and so arranged that they always return to their proper position after passing any obstruction ; these fork tines work diagonally, so that only one fork can touch the ground at the same time, and are so arranged that they spread the hay in the best possible manner. Working the full width of machine it does **25 per cent. more work, in the same time without the horse exerting any more power** than machines which do not clear the wheel track.

Being the invention of a thoroughly practical farmer of lengthened experience, and well tested in actual work, it can be confidently recommended as being the strongest and most efficient machine made.

PRICE, No. 1 Patent Haymaker, 7 ft. 9 in.	..	..	..	£15 15 0
" " 2 " " 6 " 8 "	..	..	..	13 13 0

*Arrangements can be made for these Machines to be had on approval. Testimonials and any further particulars required will be given on application to—*

## T. T. MALLETT, Blagreve Farm, GLASTONBURY.

# J. RANDS & JECKELL,

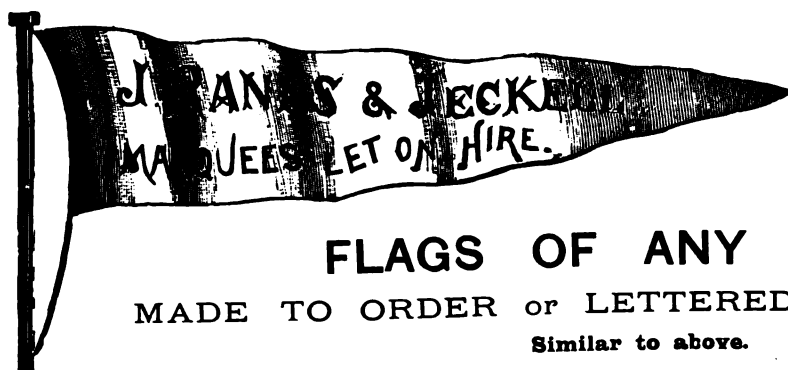


Sack, Rick Cloth & Tent Manufacturers,  
**IPSWICH.**

BY ROYAL WARRANT TO



HEMP AND JUTE SACKS & BAGS OF EVERY DESCRIPTION.  
HORSE CLOTHS. HORSE CLOTHING.  
HORSE LOIN COVERS. SHEEP NETTING. REAPER TWINES.  
TRUSSING CORD.



ROYAL STANDARDS.

ENSIGNS.

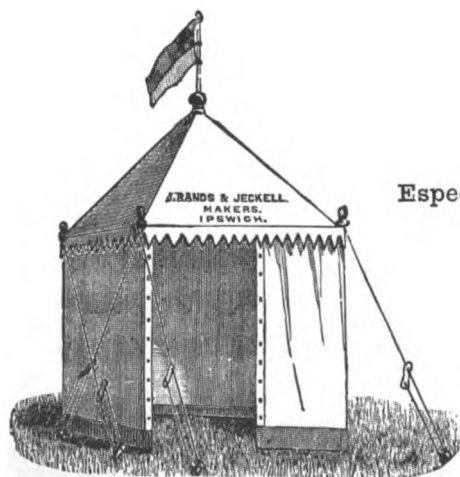
Scarlet, Blue or White

Jacks,

Merchant or Navy.

## FLAGS OF ANY DESIGN

MADE TO ORDER or LETTERED FOR SIGNS, &c.,  
Similar to above.



## SQUARE TENTS,

Without Centre Pole.

Especially suitable for Show Exhibitors and various  
other purposes.

6 ft. square	...	...	...	...	£5 0 0
8 ft. „	...	...	...	...	6 10 0
10 ft. „	...	...	...	...	8 10 0

DESCRIPTIVE PRICE LIST ON APPLICATION.

**J. RANDS & JECKELL,**

PATRONIZED BY



H.M. THE QUEEN.

**Sack, Rick Cloth & Tent Manufacturers,  
IPSWICH.**

BY ROYAL WARRANT TO

H.R.H.  
THE PRINCE OF WALES.**STACK CLOTHS.**

	Ncs.	1	2	3	4	5	6
7 yds. by 6 yds. ...	21/	31/6	42/	52/6	63/	84/	
10 yds. by 8 yds. ...	40/	60/	80/	100/	120/	160/	
12 yds. by 10 yds. ...	60/	90/	120/	150/	180/	240/	

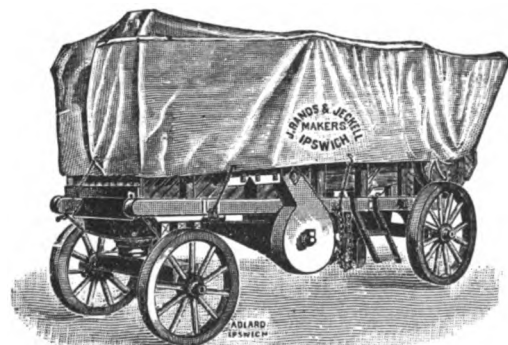
*Carriage Paid; less 5 per cent. for Cash.***SHEEP AND LAMB SHELTERING CLOTHS.**

Extracts from Testimonials.

- "Most useful and convenient."  
 "Our Shepherds find it very convenient."  
 "Indispensable to every Flockmaster."  
 "For the last twenty years found them useful and good in every respect."  
 "By far the cheapest and easiest way of providing shelter for Lambs."

Made up in 20 yard lengths, 3 feet deep, with Brass  
Eyelets and Cords for fixing to Hurdles.

6d., 9d. and 1s. per yard, Carriage Paid.

**ROT-PROOF COVERS,**For **WAGONS, ENGINES AND MACHINES.****The Best Covers for Estate and Farm Purposes.**

9 ft. by 8 ft. ...	...	...	at £1	4	0
12 ft. by 9 ft. ...	...	...	"	1	16 0
13 ft. by 10 ft. ...	...	...	"	2	3 4
15 ft. by 9 ft. ...	...	...	"	2	5 0
16 ft. by 10 ft. ...	...	...	"	2	13 4
18 ft. by 12 ft. ...	...	...	"	3	12 0
21 ft. by 14 ft. ...	...	...	"	4	18 0

*5 per cent. discount for Cash. Carriage Paid.*

**Fifteen Gold and Silver Medals awarded this  
Rot-proof and Waterproof Process.**

**DESCRIPTIVE PRICE LIST ON APPLICATION.**

# W. N. NICHOLSON & SONS, Ltd.,

Patent R.A.S.E. First Prize Taunton, Manual & Self-Acting Rakes.

The Honours awarded to our Horse Rakes by the Royal Agricultural Society of England, are unprecedented, viz.:—

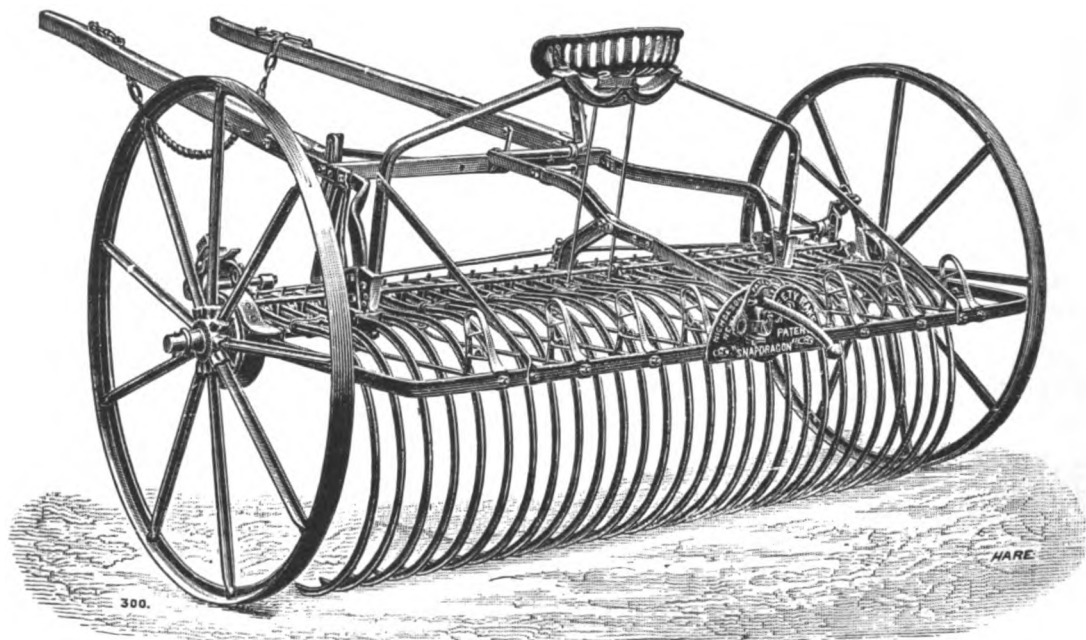
At BEDFORD, for Self-acting Rake, **The Special Silver Medal of the Society.**

At TAUNTON, for Self-acting Rake, **The 1st Prize of £15.** At TAUNTON, for Manual and Pedal Rakes,

**The 1st Prize of £15. The 2nd Prize of £10. The HIGH COMMENDATION.**

And at PLYMOUTH, 1890, for Self-acting Rake, **The Special Silver Medal of the Society.**

Thus for the last 20 years we have taken every prize or premium, but one, that has been given to Horse Rakes by the Royal Society of England.



Prices of the "SNAPDRAGON" SELF-ACTING RAKES, with 52-in. wheels, driver's seat and double levers, the most useful kind for general purposes.

## STRONG PATTERN.

S.D.G. 1 (Atlantic) with 24 teeth, 7-ft. 8-in. wide	£ 12 10
S.D.G. 2 (Athlete) with 26 teeth, 8-ft. 2-in. wide	13 0
S.D.G. 3 (Atlas) with 28 teeth, 8-ft. 8-in. wide	13 10

## LIGHTER PATTERN.

L.S.D. 1 (Aspen) with 24 teeth	£ 12 0
L.S.D. 2 (Asiatic) with 26 teeth	12 0
L.S.D. 3 (Assassin) with 28 teeth	12 10

**The Patent "Switchback" Haymaker**, which turns as well as teds, imitating exactly the movement of the Hay Fork in the hands of an energetic labourer. **Price £15 0 0.**

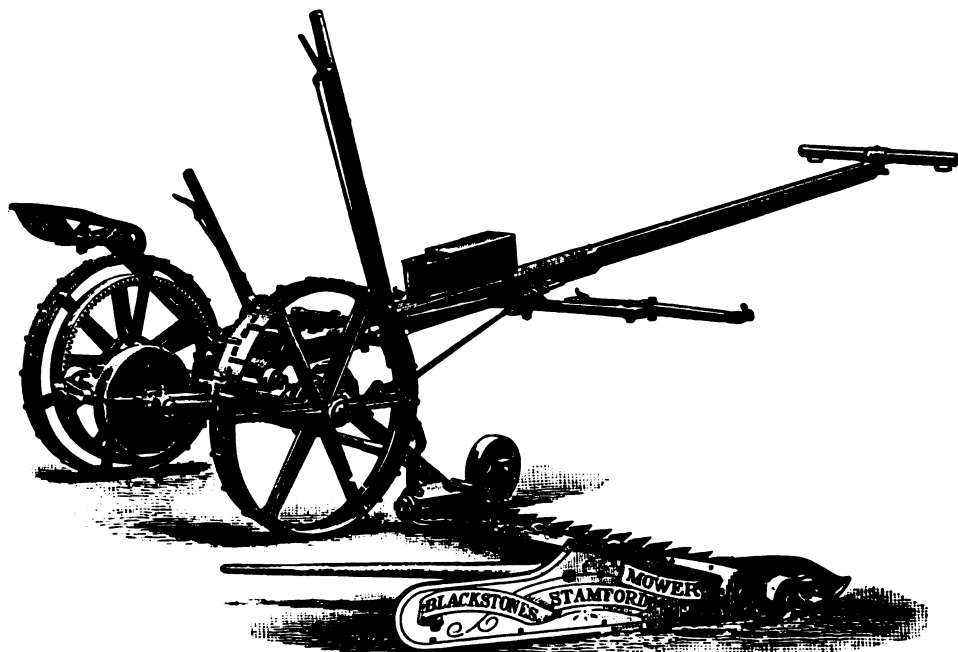
**The Patent "Hercules" Bone Crushing and Grinding Mills**, which won the £10 Prize of the R.A.S.E. at Plymouth in 1890, and which the Judges reported were all that the Agriculturist could desire for grinding Bones and Cake.

No. H H Mill, for 4 H.P. Engine, 7-in. wide (Daisy)	..	..	..	£ 45 0 0
No. 2 Mill for 6 H.P. Engine, 10-in. wide (Dance)	..	..	..	65 0 0

**W. N. NICHOLSON & SONS, Ltd., Newark-on-Trent, ENGLAND.**



BLACKSTONES'

'STAMFORD' LIGHT  
DRAUGHT MOWER

No. 1 "Stamford" Grass Mower with 4ft. 3in. cut, two knives, and the usual spare fittings in the Tool Box	...	...	...	...	17 17 0
No. 1 "Stamford" Grass Mower with 4ft. 6in. cut, two knives, and the usual spare fittings in the Tool Box	...	...	...	...	18 7 0
No. 2 "Stamford" Grass Mower with 4ft. 8in. cut, EXTRA LARGE ROAD WHEELS, and the usual extras. This is a very powerful Machine, and is specially adapted for cutting the heaviest and roughest crops	...	...	...	...	18 10 0
No. 2 "Stamford" Grass Mower with 4ft. 6in. cut, EXTRA LARGE ROAD WHEELS, and the usual extras. This is a very powerful Machine, and is specially adapted for cutting the heaviest and roughest crops	...	...	...	...	19 0 0
Attachments for Reaping to any of the above machines	...	...	...	...	2 15 0

## SUMMARY OF IMPROVEMENTS:

Great Reduction in the cost of Repairs.      Lightness of Draught.      Solidity of Construction.

New Patent Foot Lever, by which the Cutter Bar can be raised without the use of the hand.

New Patent Grease Box to Knife Bar Heel.

New Patent Arrangement for adjusting Cutter Bar.

New Patent Slide to Swath Board.

EVERY MACHINE GUARANTEED.

FREE TRIAL ALLOWED.

BLACKSTONE &amp; Co., Ltd.,

RUTLAND ENGINEERING WORKS,  
Established 1837.

STAMFORD.



# BLACKSTONES' ROYAL 'TAUNTON' HAYMAKERS

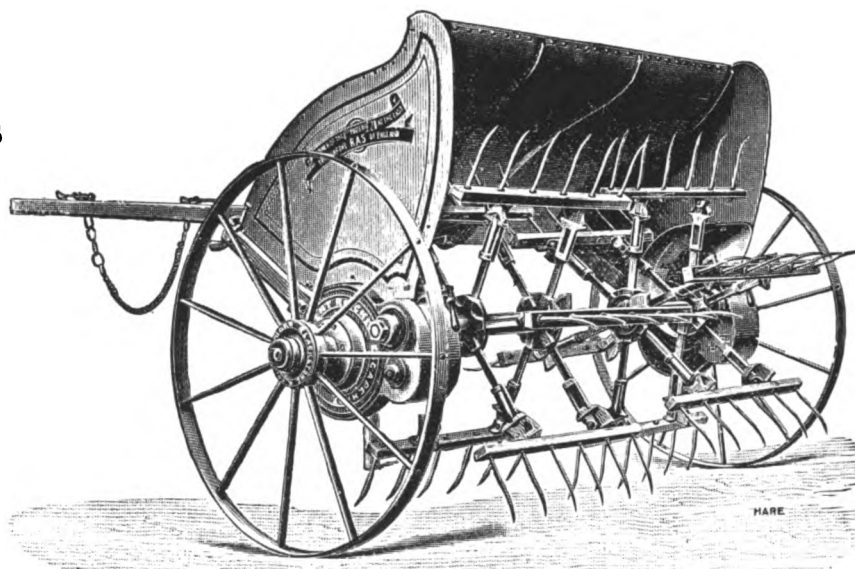
WINNERS

OF

250

FIRST

PRIZES



UPWARDS

OF

25,000

MADE

AND

SOLD.

We think we can justly claim to be the oldest and largest Manufacturers of Haymakers in the world, having Won the **First Prize** at the *earliest* trials of the Royal Agricultural Society of England, and the **First Prize** at their **latest Trials**, whilst we have made and sold upwards of Twenty-five Thousand. Throughout this long and varied experience we do not know of any Haymaker having given such general satisfaction as the "Taunton"; in fact we are not cognisant of a single failure. By the forward action, it will ted and thoroughly lighten the heaviest crops without clogging, and by the back-action, Clover, and partially dried Hay may be turned without knocking out the seed, or breaking the leaf. They are extremely well made, very strong, and durable, and it is no uncommon occurrence for them to work in heavy crops for ten or twelve years without costing as much as one shilling for repairs. They are mounted on solid steel axles, they are **light in draught**, and so light on the back of the horse that they require a belly-band to keep the shafts right. They are fitted with two springs to each tine bar, and are adapted to the heaviest crop as well as light.

## PRICES AND SIZES.

The No. 0 "Heavy Swath" Haymaker has 7 tine bars to each flyer, and extra high wheels. It is specially constructed for very long and heavy crops, and can be worked by one horse.

The No. 1 Haymaker is sufficiently wide to take two swaths as cut by an ordinary mowing machine, and can easily be worked by one horse. On hilly land the No. 2 Haymaker is generally used.

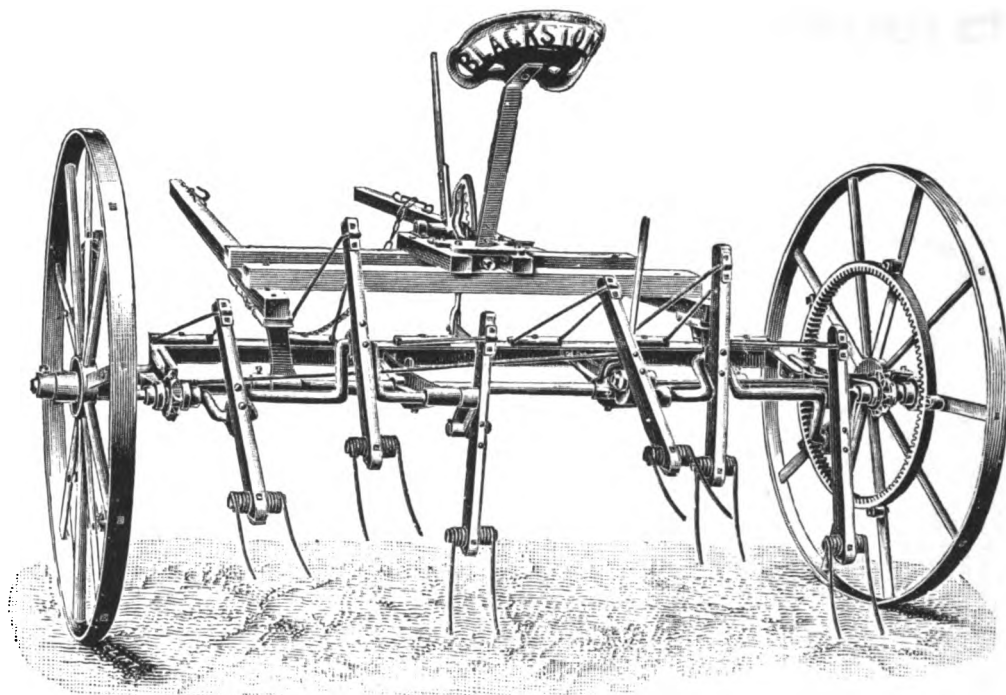
The No. 3 is a light machine with double flyers, but narrower than the above, and suitable for small occupiers, very hilly land, and lighter crops. It can be worked by a cob.

The "Midget" is a single flyer machine, sufficiently wide to ted or turn one swath only.

	Extreme Width	Width over Tires	Width over Flyers		
No. 0 Taunton "Heavy Swath" Haymaker, with hood, double action ...	8ft. 4in.	7ft. 10in.	5ft. 11in.	£17	17
No. 1 Haymaker, with hood, double action ...	8ft. 4in.	7ft. 10in.	5ft. 11in.	16	16
No. 2 " " " "	7ft. 8in.	7ft. 3in.	5ft. 3in.	15	15
No. 3 " " " "	6ft. 10in.	6ft. 6in.	4ft. 6in.	13	13
No. 6 "Midget" " "	5ft. 6in.	5ft. 1½in.	2ft. 10in.	10	10

EXTRAS:—Seat for Driver, 15/- extra. Patent Ratchet Escapement, 15/- extra.

## PATENT HAY &amp; CLOVER TURNER OR TEDDER.



	Extreme Width	Width over Tires	Width over Forks	Height of Wheels	Price
No. 1 with 4 Two-pronged Forks between wheels (see illustration) ...	6ft. 0in.	5ft. 4in.	3ft. 9in.	4ft.	£21 11 0
No. 1A with 4 Two-pronged Forks between wheels & 2 patent outside forks ...	6ft. 6in.	5ft. 4in.	6ft. 6in.	4ft.	13 13 0
No. 2 with 6 Two-pronged Forks between wheels (as illustrated) ...	8ft. 3ft.	7ft. 6in.	6ft. 0in.	4ft.	12 12 0
No. 2A with 6 Two-pronged Forks between wheels & patent outside forks ...	8ft. 7in.	7ft. 6in.	8ft. 7in.	4ft.	14 14 0

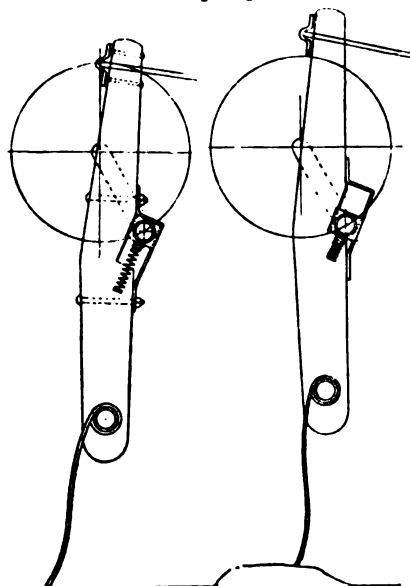


Fig. 1

Fig. 2.

This newly designed Machine embraces many improvements hitherto unknown in this class of Implement, and is manufactured on strictly English lines. The frame and wheels are constructed entirely of iron and steel, the horse shafts and fork levers of best selected English ash. It is far more rigid and durable than wood-framed ones, and is suitable for the severest tests on uneven land. The Cranks work with less friction as the bearings, which are of brass, are kept lineable.

Fig. 1 shows the fork in its normal position on level ground.

Fig. 2 shows the fork meeting with an obstruction in its descent, the patent spring then comes into play, and yielding, allows the fork to remain stationary, while the crank continues its stroke—breakages are thus avoided.

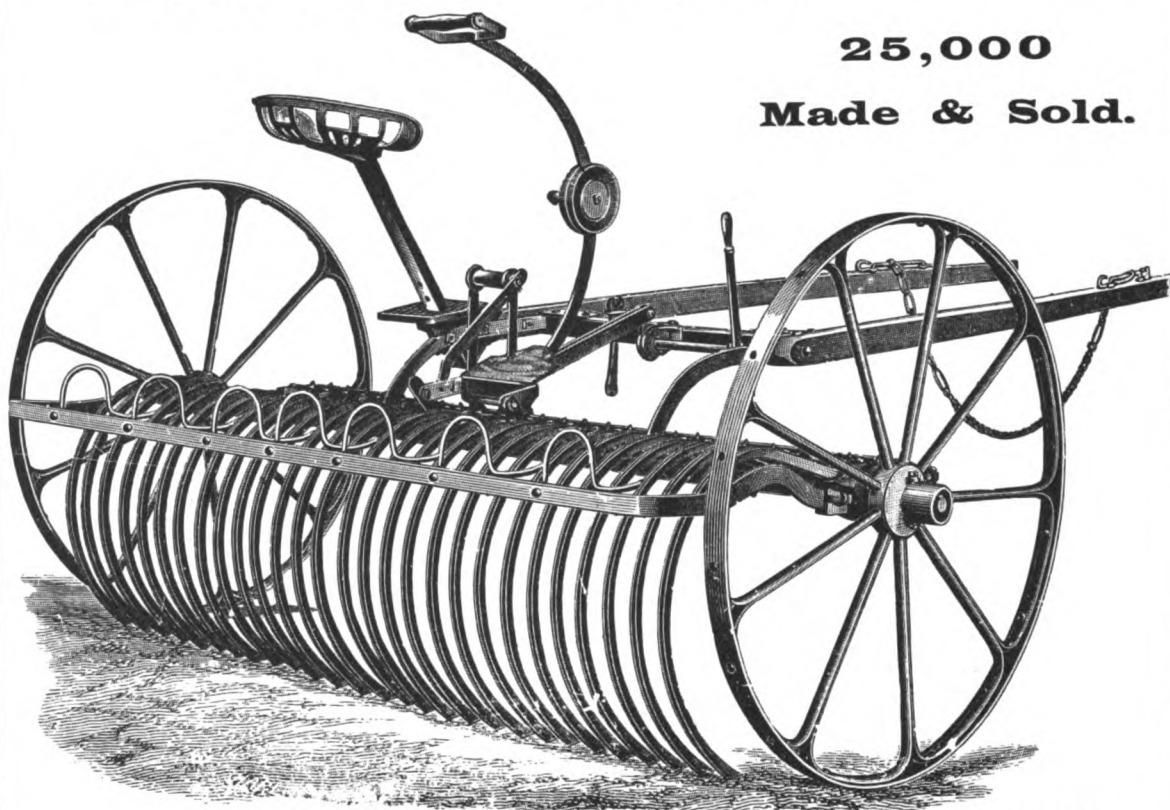
BLACKSTONE &amp; Co., Ltd.,

RUTLAND ENGINEERING WORKS

Established 1837

STAMFORD.

BLACKSTONES'

**"STAMFORD" HORSE RAKES****25,000****Made & Sold.****Have been proved to be the BEST & MOST RELIABLE IN THE WORLD.****MEDIUM PATTERN.**

This pattern has been introduced to meet the requirements in those districts where a light and cheap Rake is in demand. It possesses the advantages of the celebrated Strong Pattern "Stamford" Rake, being fitted with teeth of the same special V section of steel, and differs only in the following respects, viz: the frame is lighter, the wheels have light divided spokes, and the teeth are adjusted by a link and pin in the centre of the Rake, which is very simple and not liable to get out of order. For countries where a strong and light Rake is required, we think this will be found very satisfactory.

**SIZES AND PRICES.**

No.	Teeth.	Height of Wheels.	Extreme Width.	PRICE. £ s. d.
12a	24	4ft. 0in.	7ft. 8in.	9 0 0
13a	26	4ft. 0in.	8ft. 2in.	9 5 0
14a	28	4ft. 0in.	8ft. 8in.	9 10 0
15a	24	4ft. 6in.	7ft. 8in.	9 15 0
16a	26	4ft. 6in.	8ft. 2in.	10 0 0
17a	28	4ft. 6in.	8ft. 8in.	10 5 0

**STRONG PATTERN.**

We recommend the above **Strong Pattern** for rough land and heavy crops, where a strong and serviceable Rake is required. It has a solid through-axle, the wheels are of an improved pattern, with divided spokes carried round the inside of tire, giving great strength and rigidity. By a simple and novel arrangement (and without the objectional system of loosening the shafts), the teeth are raised or lowered to suit any class of work. The seat and foot rest can be adjusted to suit the length of the driver's legs. The use of the spiral spring to lock the teeth has been a constant source of annoyance and expense. We have invented a **PERFECT** self-locking arrangement *without* a spring, which is applied to all our Rakes.

**SIZES AND PRICES.**

No.	Teeth.	Height of Wheels.	Extreme Width.	PRICE. £ s. d.
12	24	4ft. 0in.	7ft. 8in.	10 5 0
13	26	4ft. 0in.	8ft. 2in.	10 10 0
14	28	4ft. 0in.	8ft. 8in.	10 15 0
15	24	4ft. 6in.	7ft. 8in.	11 5 0
16	26	4ft. 6in.	8ft. 2in.	11 10 0
17	28	4ft. 6in.	8ft. 8in.	11 15 0

**BLACKSTONE & Co., Ltd.,****RUTLAND ENGINEERING WORKS,**  
Established 1837.**STAMFORD.**

## BLACKSTONES'

## SELF-ACTING HORSE RAKES.

Our New Patent Self-Acting Horse Rake, possesses all the advantages of our well-known Manual Rake of the "Stamford" Pattern, with the addition of a patent self-acting arrangement consisting of two triggers and weighted pawls, which by a slight pressure of the driver's foot upon the pedal gear into the travelling wheels, by which means the teeth are lifted, and the load is discharged without strain upon the Horse. This rake is provided with a patent combination of lever and central adjustment, and it is believed that it is the only Self-Acting Horse Rake with means of adjustment independent of the horse shafts. With our patent central adjustment the teeth can be raised or lowered to a nicety to suit the inequalities of the ground without interfering with the shafts, and therefore are readily adjusted after the horse is attached to rake perfectly clean over ridge or furrow.

Spiral Springs and other complications, which we consider most objectionable in a Horse Rake, as being likely to get out of order, are entirely dispensed with in this Rake.

STRONG PATTERN.					MEDIUM PATTERN.				
No.	No. of Teeth.	Height of Wheels.		Price.	No.	No. of Teeth.	Height of Wheels.		Price.
45	24	4ft. 0in.	..	£11 10 0	45a	24	4ft. 0in.	..	£11 0 0
46	26	4ft. 0in.	..	11 15 0	46a	26	4ft. 0in.	..	11 5 0
47	28	4ft. 0in.	..	12 0 0	47a	28	4ft. 0in.	..	11 10 0
48	24	4ft. 6in.	..	12 10 0	48a	24	4ft. 6in.	..	11 15 0
49	26	4ft. 6in.	..	12 15 0	49a	26	4ft. 6in.	..	12 0 0
50	28	4ft. 6in.	..	13 0 0	50a	28	4ft. 6in.	..	12 5 0

## BLACKSTONES'

## ANGLO-AMERICAN SELF-ACTING HORSE RAKES.

This Machine has been brought out to meet the demand for a light and cheap Self-Acting Horse Rake of the class made in North America; but it has the **Strength, Solidity, and Durability** of the English Pattern.

It is provided with solid through-axle and high travelling wheels. The teeth are made of **Steel of the Best Quality**, and being tempered in oil by a special process, they are elastic, and after coming in contact with inequalities of the ground or other obstructions, they recover immediately their original form. *The teeth are fitted into the beam by a simple process, without the use of bolts and nuts, and are easily interchangeable.*

## THEY CAN BE WORKED BY A SMALL BOY AND PONY.

No.	Teeth.	Wheels.	8ft. 6in. wide.	Price
54	24	4ft. 6in.	..	£7 15 0
55	26	4ft. 6in.	..	8 0 0
56	28	4ft. 6in.	..	8 5 0
57	30	4ft. 6in.	..	8 10 0

## HUXTABLES PATENT "INVINCIBLE" HORSE RAKES.

These Horse Rakes were originally brought out for districts where the gateways and roads were narrow, but they have gradually worked themselves to the front in many other parts of the Kingdom. They are undoubtedly the most perfect rakes of their class. By simply applying a handle and giving it a few turns, the rake can be expanded or contracted in width, and at the same time the teeth are wider or narrower apart. The advantage of this is obvious, for in collecting hay and raking stubbles the teeth should be wide apart, and in finishing a meadow for the last time they should be close together.

## PRICES AND DIMENSIONS.

- No. 1—6ft. 10in. is the extreme width when contracted to its least width, the teeth being 2½in. apart.  
It is 9ft. 10in. when expanded to its greatest width, the teeth being 4in. apart .. £15 15 0.
- No. 2—7ft. 8in. is the extreme width when contracted to its least width, the teeth being 2½in. apart.  
It is 11ft. 2in. when expanded to its greatest width, the teeth being 4in. apart .. £16 16 0

*They can be worked at any intermediate width. Full description and illustrations may be had post free.*

# HIGH-CLASS VERTICAL STEAM ENGINES.

With Steel Boilers

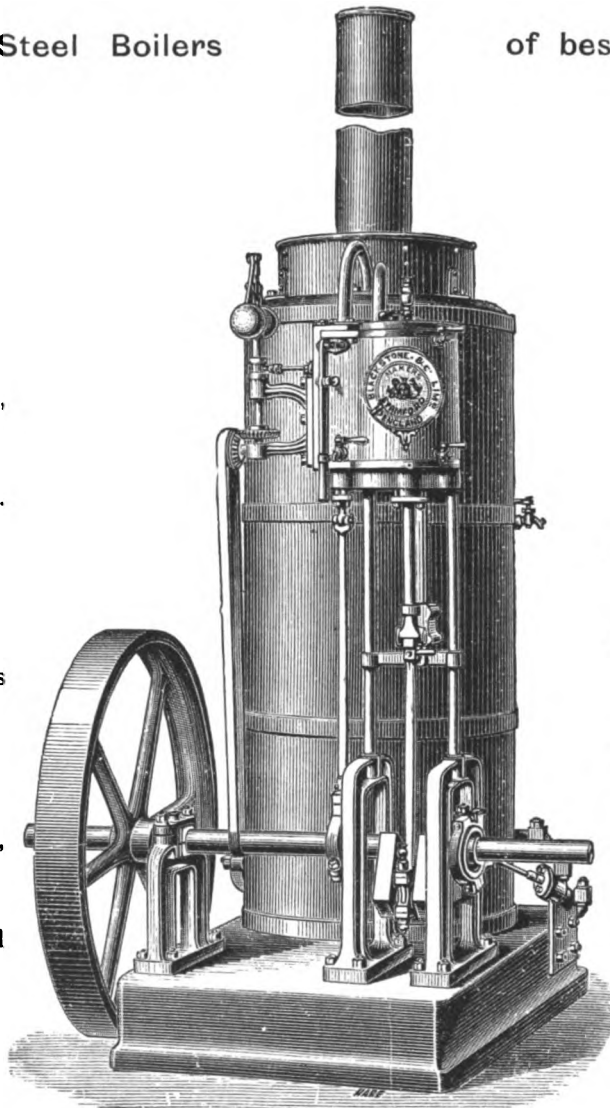
of best quality.

## RECENT AWARDS

Melbourne Exhibition,  
1888-9,  
Special Silver Medal.

International  
Exhibition, Nivelles  
First Prize.

At Concours at Vise,  
Belgium.  
Grand Silver Medal  
and 20 Francs.



## RECENT AWARDS.

Brussels Exhibition  
Special  
Silver Medal.

Government Trials at  
Perugia, Italy,  
Grand Prize Medal

International  
Exhibition, Amsterdam  
First Prize,  
Silver Medal.

Inventions  
Exhibition, London,  
Prize Medal.

This illustration represents our New Pattern Combined Vertical Steam Engine and Boiler with the working parts independent of the Boiler. This class of Engine is perhaps the best and simplest form of steam motor, as being very compact, it takes up very little room, and is suitable for all kinds of work, such as driving Corn Mills, Chaff Cutters, Saw Benches, Barn Machinery, Pumps, small Factories, Breweries, Dairies, &c. They are made with either Cross-tube or Multitubular Boilers, as desired.

These Engines can be mounted on inexpensive travelling wheels.

*The points to which we wish to draw special attention are the following:—*

**SIMPLICITY OF CONSTRUCTION.**

**EXCELLENCE OF DESIGN.**

**SUPERIOR QUALITY OF WORKMANSHIP.**

**FACILITY OF REPAIRS, AND ECONOMY IN THE CONSUMPTION OF FUEL.**

**BLACKSTONE & Co., Ltd.,**

**RUTLAND ENGINEERING WORKS, STAMFORD,**  
Established 1837.

# BLACKSTONE'S HIGH-CLASS VERTICAL STEAM ENGINES

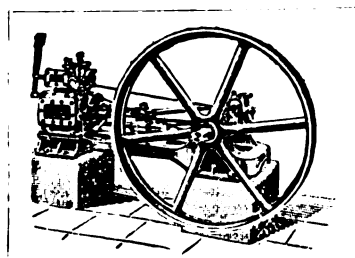
## DIMENSIONS AND PRICES.

Mark.	Nominal Horse Power.	Horse Power 60 lbs. Pressure	ENGINE.						BOILER.		MULTI-TUBULAR BOILER.		CROSS-TUBE BOILER.		Prices of Engine and Multitubular Boiler.	Prices of Engine and Cross-tube Boiler.
			Diameter of Cylinder.	Length of Stroke	Length of Connecting Rod (between Centres)	Diameter and Width of turned Fly-wheel.		No. of Revolutions per minute.	Height including Ash Pit.	Diameter.	No. of Tubes	Dia. of Tubes	No. of Tubes	Dia. of Tubes		
			in.	in.	ft. in.	ft. in.	in.		ft. in.	ft. in.		ins.		ins.	£	£
Stationary, or Mounted on 3 Wrought or Cast Wheels Single Cylinders.	B	1	2	8½	7	1 7¼	2 0 by 2½	200	4.9	1.10	9	1½	—	—	48	50
	C	1½	3	4	7	1 7¼	2 4 by 2½	200	5.0	2.1	16	1½	1	7	55	57
	D	2	4	4¾	9	2 0¾	3 0 by 3¾	180	5.9	2.3	16	1¾	1	8	68	70
	E	3	6	5¾	9	2 0¾	3 4½ by 4	180	6.3	2.6	27	1¾	2	7	80	84
	F	4	8	6¾	10	2 3	4 0 by 5½	160	6.9	2.10	33	1¾	2	8	90	95
	G	5	10	7¾	10	2 3	4 0 by 6½	160	7.0	3.0	41	1¾	2	8	105	113
	H	6	12	8½	12	2 7½	4 5 by 5½	145	7.9	3.2	46	1¾	3	8	125	135
	I	7	14	8¾	12	2 7½	4 5 by 5½	145	8.0	3.2	48	1¾	3	8	140	150
	K	8	16	9¾	12	2 7½	5 0 by 6	145	8.6	3.	55	1¾	4	8	157	165
Double Cylinders Stationary.	L	10	20	10½	14	3 2	5 0 by 7	120	9.0	4.2	50	2	3	10	180	192
	M	12	24	11½	14	3 2	5 0 by 7½	120	10.0	4.6	60	2	3	12	210	222
	GG	10	20	7¾	10	2 6½	5 0 by 7	140	9.0	4.2	50	2	3	10	210	226
Single Cylinders Visor Portable Vertical	HH	12	24	8½	12	2 9	5 0 by 7½	120	10.0	4.6	60	2	3	12	240	260
	II	14	28	8½	12	2 9	5 0 by 8	120	12.0	4.6	68	2	4	12	270	290
	E	3	6	5½	9	1 11½	3 4½ by 4	180	5.5	2.6	27	1½	2	7	105	
	F	4	8	6½	10	2 0¾	4 0 by 5½	160	5.5	2.8	30	1½	2	8	125	

## HORIZONTAL STEAM ENGINE.

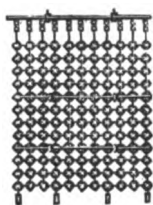
## SIZES.

## PRICES.



Mark on Cylinder	Nom. H.P. of Engine	Dia. of Cylinder.	in. Stroke	Revolutions.	Dia. of Fly-wheel	Width of Fly-wheel	Engine only.			Engine and Vertical Multitubular Boiler.			Engine and Vertical Cross-tube Boiler.		
		in.	in.		ft. in.	in.	£	s.	d.	£	s.	d.	£	s.	d.
E	3	5¾	9	185	3 0	5	38	0	0	80	0	0	84	0	0
F	4	6¾	10	160	3 6	6	54	0	0	90	0	0	95	0	0
H	6	8½	12	150	4 0	6½	68	0	0	125	0	0	135	0	0



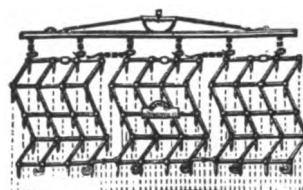


Chain Harrows  
in all sizes.

## BLACKSTONE'S



Parmiter's Patent Harrows  
for old pastures, covering seeds, &c.



"Excelsior" Harrows  
for 1, 2, or 8 horses.

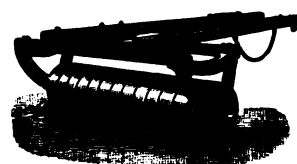
## CULTIVATING IMPLEMENTS.



Plain Rollers  
cast or wrought.



Cambridge Rollers  
in 20 sizes.



Segment Rollers  
all sizes.



Corn Grinding Mills,  
Fitted with Stones.

## BLACKSTONE'S



Horse Gears,  
From pony to 4-horse power.



Patent Graters, Pulpers,  
Silcers,  
For hand, horse, or steam  
power.

## FOOD PREPARING MACHINERY



Chaff Cutters,  
For hand, horse, or  
steam power.

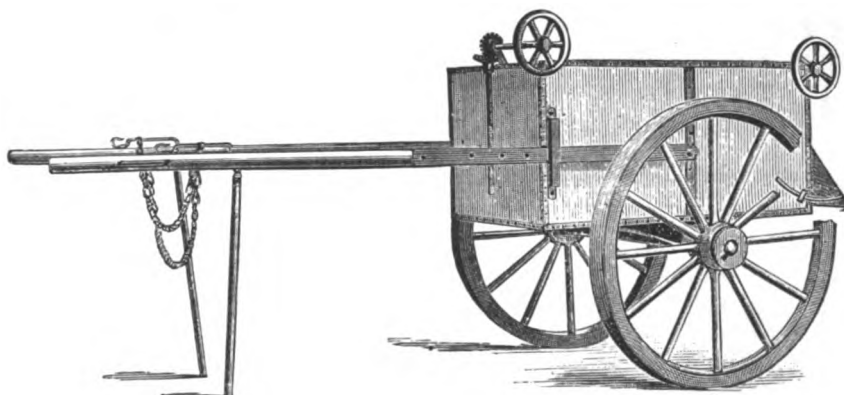
THE RUTLAND ENGINEERING WORKS  
WAS ESTABLISHED IN 1837, AND THE PROPRIETORS  
HAVE WON UPWARDS OF  
**ONE THOUSAND**  
MONEY PRIZES, GOLD & SILVER MEDALS, IN ALL  
PARTS OF THE WORLD.



New Patent Turnip  
Cutters,  
Of all kinds.

Intending purchasers of any of the above kinds of Implements are respectfully invited to  
send a Post Card for full descriptive Catalogue.

# JAS. WENSLEY'S Patent Liquid Manure Cart.



J.W. begs to call special attention to his Patent Improvements in the above Cart. 1st. The outlet is through three holes, four inches in diameter, which can be opened from half-an-inch to the whole size as may be required, it then flows against a regulated door or cover which spreads equally small or large quantities in a most satisfactory manner, and it is impossible for it to choke, which has been the case with all other so called Liquid Manure Carts. 2nd. The body can be raised or lowered when travelling, keeping it level going up or down hill, also making it suitable for any height horse.

<b>PRICE</b> as above, to hold 275 gallons	...	...	...	£	s.	d.
				20	0	0
„ with Wood Body and fixed Shafts	...	...	...	16	0	0

# JAS. WENSLEY'S "Royal Windsor" Wagon.



Improved Farm Wagon with Oak Framing, Plank sides, front wheels made to lock under the body so that the Wagon may be turned in its own length, fitted with Drag Shoe and two tie chains complete.

<b>PRICE</b>	...	...	...	...	...	from £25 to £32.
						Harvest Ladders Extra, £1 10s.

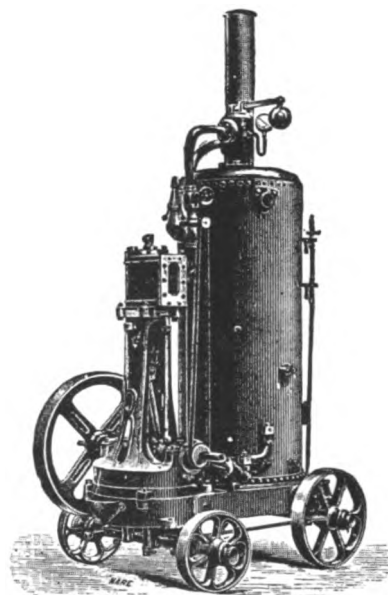
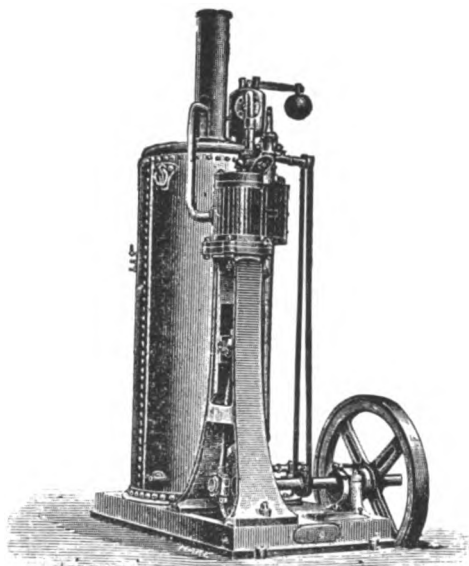
FULLY ILLUSTRATED CATALOGUES OF ALL KINDS OF VEHICLES, POST FREE, ON APPLICATION TO—

**JAS. WENSLEY, Implement Manufacturer,**  
**MARK, near HIGHBRIDGE, SOMERSET.**

# WOODROFFE & CO.'S

## "ALBION" AND "TRENT" SERIES

# VERTICAL STEAM ENGINE AND BOILER.



These celebrated Engines have been specially designed to supply the demand for a powerful, serviceable and simple motor at a moderate price. They are substantially and carefully constructed, the best materials and workmanship being employed. They are well adapted for estate, farm and dairy work; and as a thoroughly good Engine, at a low price, the "TRENT" series is unequalled.

**Notice to intending Purchasers.**—It is essentially necessary in comparing prices to compare at same time the sizes of cylinder and boiler per nominal horse power. It will be observed that the "TRENT" Engines and Boilers are, in this respect, considerably more powerful than many others in the market.

### SPECIFICATION OF THE "TRENT" SERIES.

NOMINAL HORSE POWER.	3	4	5	6
Diameter of Cylinder .. .. ins.	5 $\frac{1}{2}$	6 $\frac{1}{2}$	7	7 $\frac{3}{4}$
Length of Stroke .. .. .	9	10 $\frac{1}{2}$	10 $\frac{1}{2}$	12
Revolutions per minute .. .. .	200	180	160	160
Height of Boiler, without Base .. .. .	5 ft. 9 in.	6 ft. 6 in.	7 ft. 0 in.	7 ft. 6 in.
Diameter of Boiler .. .. .	2 ft. 6 in.	2 ft. 6 in.	2 ft. 8 in.	3 ft. 0 in.
Diameter of Fly Wheel .. .. ins.	36	36	42	42
Engine and Boiler on Tank .. .. .	£263	£275	£285	£100
"Albion" Engine on Wheels .. .. .	£267	£292	£107	—

*Detailed Specification of any size Engine or Boiler sent on application.*

### WOODROFFE & CO. SUPPLY THEIR ENGINES ON THE PURCHASE HIRE SYSTEM.

For prices of Chaff Cutters, Turnip and Root Cutters, Cake Crushers, and other Food Preparing Machinery, see General Catalogue, giving full particulars which will be sent post free on application.

SHAFTING, PULLEYS, BELTING, AND ALL FITTINGS AT SPECIALLY LOW PRICES.

## WOODROFFE & CO., Albion Iron Works, Rugeley, STAFFS.

# WOODROFFE & CO.'S

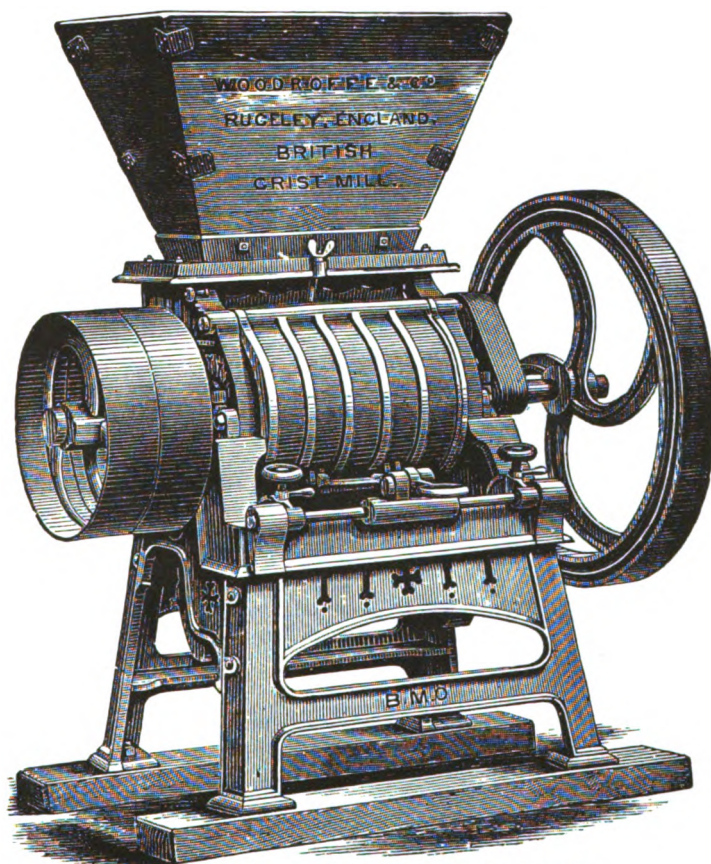
## ROYAL AGRICULTURAL SOCIETY'S

### PRIZE PATENT

# 'BRITISH' GRIST MILLS.

**AWARDED THE FIRST PRIZE AT THE LATEST TRIALS OF GRINDING MILLS.**

This Mill is fitted with a Safety Lever, which allows Nails, Stones, or other hard substances to pass through without injury to the grinding surfaces.



The Grinding Barrel is very lasting, but when worn can easily be reversed and the plate renewed at a small cost.

**GUARANTEED TO DO MORE WORK WITH LESS POWER THAN ANY MILL YET MADE.**

### SIZES AND PRICES.

Mill Marked.	Power Required.	Will Grind per hour.	Will Crush per hour.	£	s.	d.	Mill Marked.	Power Required.	Will Grind per hour.	Will Crush per hour.	£	s.	d.
B. A.	1 H.P.	8 Bush.	16 Bush.	11	0	0	B. M. A.	3 H.P.	14 Bush.	36 Bush.	15	15	0
B. M.	2 "	10 "	22 "	13	0	0	B. M. E.	4 "	35 "	80 "	21	0	0
B. M. P.	2½ "	12 "	28 "	14	0	0	B. M. O.	6 "	45 "	120 "	29	0	0

ALL PULLEYS EXTRA, ACCORDING TO SIZE.

THESE MILLS WILL CRUSH OR GRIND ANY KIND OF GRAIN TO ANY DESIRED SAMPLE.

Catalogues, Samples of work done and Testimonials sent on application.

SOLE MAKERS:

**WOODROFFE & CO., Albion Iron Works, Rugeley, STAFFS.**

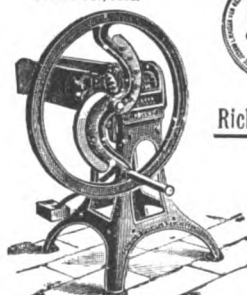


First Award, Melbourne, 1888, for Chaff Cutters, Corn Crushers, and Horse Gears.

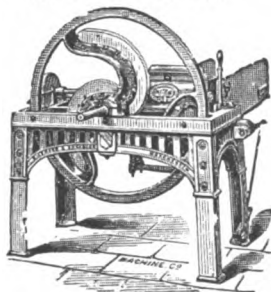
# RICHMOND & CHANDLER, MANCHESTER.



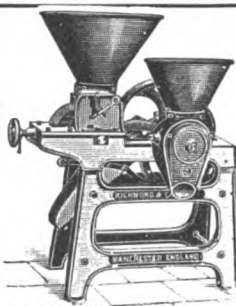
Richmond & Chandler's Chaff Cutters have taken the Prize of the Royal Agricultural Society of England at every competition since 1854.



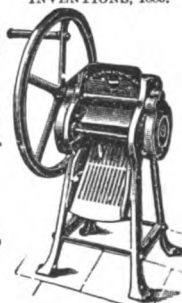
CHAFF CUTTERS,  
From £2 4s. to £29 10s.



Chaff Cutters,  
Newly-improved  
**CORN-CRUSHING  
MILLS,**  
Royal Prize  
Horse Gear Works,  
**PULPERS,**



**TURNIP  
CUTTERS,**  
Oil-cake Breakers,  
Steam Apparatus,  
**KNEADING  
MACHINES,**  
Vertical  
Steam Engines, &c.

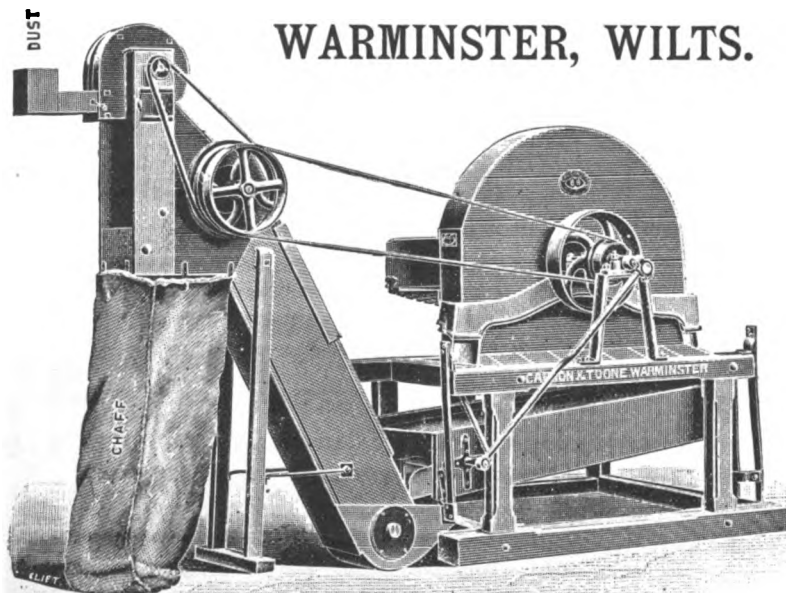


CORN CRUSHERS  
From £2 15s. to £55.



CATALOGUES FREE ON APPLICATION

## CARSON & TOONE, WARMINSTER, WILTS.



### SPECIALTIES

In combined Cutting,  
Sifting, Cleaning and Bagging

### Chaff Cutters,

All sizes, Portable and Fixed, to  
suit any requirements.

**PORTABLE MACHINES** with  
Self-Feeders.

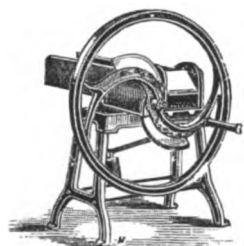
**SIFTERS and CLEANERS**  
supplied for any Maker's  
Chaff Cutter.

**MOODY'S** Root Graters, Oil-  
cake Breakers, Horse and  
Pony Gears, Lamb Creeps,  
Cheese Presses, Horse Hoes,  
&c., &c.

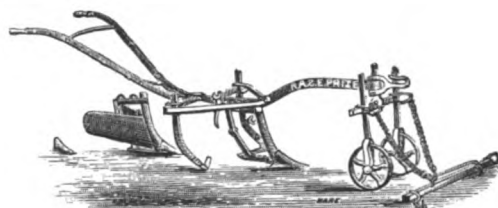
Send for full Illustrated Price Lists before placing your Orders.

# VIPAN & HEADLY (Agricultural Implement Works), Leicester.

London Office—14, HOLBORN VIADUCT.



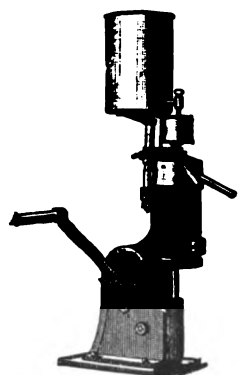
Prize Medal Chaff Cutters.  
From £2.



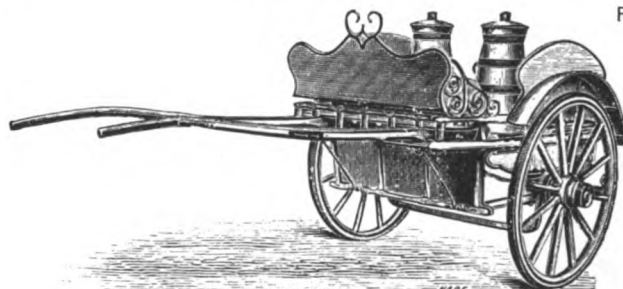
R.A.S.E. Prize Horse Hoes  
From £2 10/-.



R.A.S.E. Prize Root Pulpers.  
From £2 5/-.



Danish Cream Separators.  
From £16 15/-.



Prize Milk Floats. From £19.



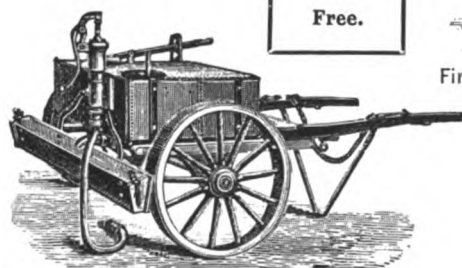
First Prize Tinned Steel  
Railway Milk Churns.  
From £1 2/-.

Illustrated  
Catalogues  
Post  
Free.

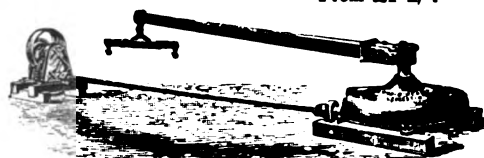
Illustrated  
Catalogues  
Post  
Free.



First-class Milk Carriages.  
From £2 10/-.



Improved Water or Liquid Manure Carts.  
From £16 10/-.



R.A.S.E. Prize Horse Gears. From £10 10/-.

Sole Agents for Great Britain for the DANISH CREAM SEPARATOR (Burmester & Waine's Patent).  
MANUFACTURERS OF GARDEN FURNITURE AND DAIRY UTENSILS.

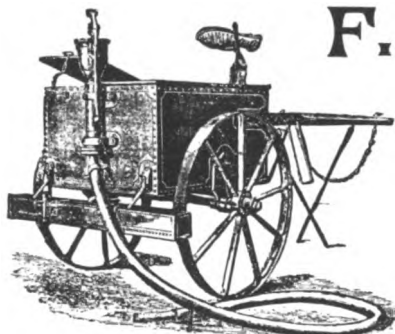
LIBERAL DISCOUNT.

Carriage Paid to any Station in Great Britain and to the Irish Ports.



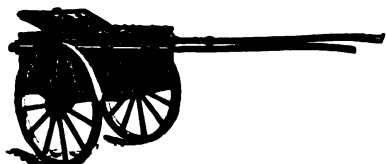
# F. RANDELL,

MANUFACTURER OF



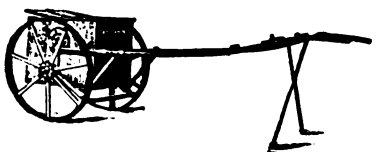
## NEW WATER & LIQUID MANURE CART.

No. 803.	120 galls.	...	...	£14 10 0
" 804.	150 "	...	...	16 10 0
" 805.	200 "	...	...	18 10 0



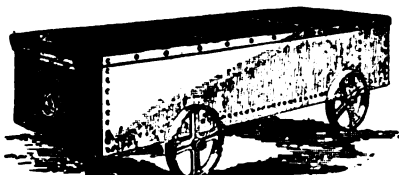
## NEW WATER CART for Pony or Cob.

No. 170.	90 galls.	...	...	£11 10 0
" 171.	120 "	...	...	13 10 0



## NEW SWING WATER CART.

No. 150.	60 galls.	...	...	£6 10 0
" 151.	80 "	...	...	7 10 0
" 152.	100 "	...	...	8 10 0



## WROUGHT-IRON DRINKING TANK.

No.	8	9	10	11	12	13
To hold	40	50	60	75	85	100 galls.
Price	40/-	45/-	50/-	65/-	70/-	77 6 each.



## MILK CART OR FLOAT.

No. 1.	Wheels 4 ft. high	...	...	£22 0 0
" 2.	" 4 ft. 3 in. high	...	...	24 0 0



## GALVANIZED HAND CART.

No. 275.	To hold 50 galls.	£4 10 0
No. 254.	To hold 86 galls.	£2 10 0

## WATER and LIQUID MANURE CARTS and VANS.



No.	Galls.		No.	Galls.	
250.	12	£1 12 0	261.	20.	£2 5 0
251.	20.	2 2 0	262.	33.	2 15 0
252.	30.	2 12 6			

In all Sizes and Designs for FARM, ESTATE & GARDEN Purposes.



No. 1.	...	£1 5 0
" 2.	...	1 15 0
No. 5.	...	£3 0 0
" 6.	...	3 10 0

Water and Wheel BARROWS, Portable PUMPS, TANKS, &c.



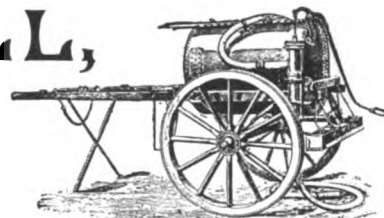
Stand and Pump, with screwed tail-piece fitted with brass union for suction hose £2 10s. 2 in. 2 ply India-rubber and canvas suction hose, per ft. 2/6. Galvanized Strainer, 2/6.



"DISPATCH" ROOT PULPERS, GRATERS, and SHREDDERS with PATENTED DISC CLEANER, As shown above, all with 8 Knives.

Price, each ... £3 15 0

St. Nicholas Works,  
**NORTH WALSHAM,**  
**NORFOLK.**



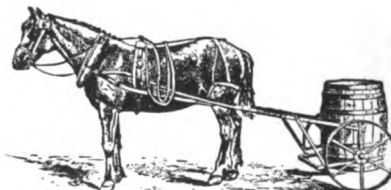
## NEW CYLINDRICAL WATER CART.

No. 500.	100 galls.	...	...	£14 10 0
" 501.	125 "	...	...	15 10 0
" 502.	160 "	...	...	17 10 0
" 503.	200 "	...	...	19 10 0



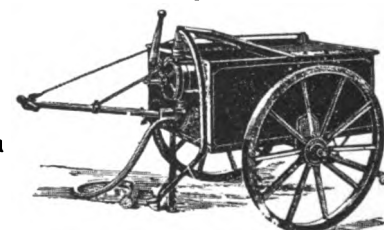
## THREE WHEEL WATER CART.

No. 18.	100 galls.	...	...	£9 5 0
" 20.	140 "	...	...	10 10 0



## WATER BARROW WITH SHAFTS.

No. 255.	To hold 36 galls.	...	...	£3 15 0
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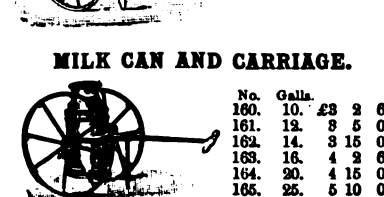


## NEW HAND GARDEN WATER CART.

No. 160.	To hold 60 galls.	...	...	£9 0 0
Pump and Fittings extra.				

## NEW TWIN MILK CARRIAGE.

No.	Galls.			
260.	20	£9 10 0		
261.	24.	10 5 0		
261.	28.	11 0 0		
263.	32.	12 0 0		



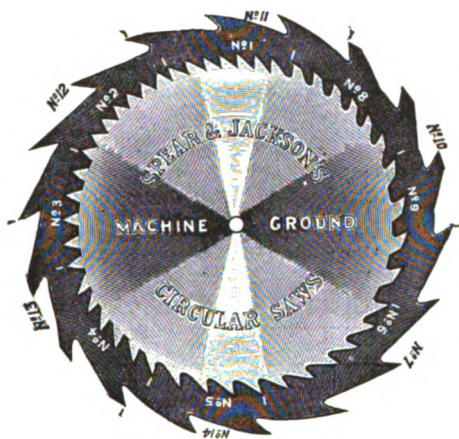
## MILK CAN AND CARRIAGE.

No.	Galls.			
160.	10.	£3 2 6		
161.	12.	3 5 0		
162.	14.	3 15 0		
163.	16.	4 2 6		
164.	20.	4 15 0		
165.	25.	5 10 0		

# SPEAR & JACKSON'S

Extra Cast Steel

## CIRCULAR SAWS.



Manufactory:

### Etna Works, SHEFFIELD.

Price List forwarded on application.

## WEIGHBRIDGES FOR FARMERS

### 'THE McJANNET' CART WEIGHBRIDGE

WITH CATTLE CAGE.

(In Three Different Widths.)

Name.	Size of Plate.	To Weigh.	Weight of Castings.	Price.	Price with Cattle Cage.
No. 1	Ins. 72 x 21	Cwts. 50	Cwts. Qrs. 12 2	£ 9 10 0	£ 12 0 0
No. 2	72 x 24	50	13 3	10 10 0	13 0 0
No. 3	72 x 42	50	19 3	13 10 0	16 0 0

The above Weighbridges are very Substantial, Simple in Construction, Quite Self-Contained, Easily Erected, and Absolutely Accurate, and Plugged ready for the Stamp of the Local Inspector of Weights and Measures.

**THE CAGES ARE STRONG AND UNBREAKABLE.**

*Highest Testimonials from Farmers in every County.*

Sole Proprietor and Inventor—

## JOHN D. McJANNET,

STIRLING, N.B.

*The Only Medal Awarded at the Royal Mining, Engineering and Industrial Exhibition, Newcastle-on-Tyne, 1887, for Superior Preservation of Timber, was given to ARMSTRONG, ADDISON & Co.*

## PRESERVED WOOD FENCING, &c.,

For Estates, Railways, Collieries, &c.

**Creosoted Fencing** is neat in appearance and can be fixed by any handy labourer. It will last three times as long as Unpreserved Wood, including Larch, and needs no painting or tarring. Unlike Wire or Iron Fencing, it is not dangerous to Stock, being readily seen. During thunderstorms, Cattle and Horses have frequently been killed through being near to Iron Fences. Death has also often been caused by animals swallowing broken pieces of wire.

## CREOSOTED WOOD CATTLE SHELTERS, STACK COVERS,

And other Farm Erections.

These cost less than Stone, Brick, or Iron, and are extremely healthy. The Creosote in the Wood is an excellent disinfectant, and guards against disease.



## ARMSTRONG, ADDISON & Co.,

Timber Importers and Preservers.

Have supplied, during more than thirty years past, **Creosoted** and **Kyanized Timber** to Railways, Estates and Collieries, for surface and underground purposes, and have received most satisfactory and never failing testimony to its complete preservation, and the decided economy in using it in preference to Unpreserved Wood.

Telegrams: Timber, Sunderland. Telephones: Post Office, No. 15 National, No. 1

Address to Chief Office: **SUNDERLAND.**

Illustrated Pamphlets and Testimonials relating to the durability of Preserved Timber and Sketches of Fencing, Paling, Gates, &c., on application.





# WOODS & CO.,

## AGRICULTURAL ENGINEERS,

## STOWMARKET, SUFFOLK.

Established 1812.



### WOODS & CO.'S New Improved Pattern GRINDING MILLS.

The best mill for grinding into fine meal, wheat, barley, beans, peas, maize, &c., and for splitting and kibbling to any degree of fineness required. They will also grind coffee, rice, alum, oil-cake, charcoal, soda, saltpetre, barks, &c.

Very strongly constructed to stand any amount of work without vibration. One pair of grinding plates will grind about a thousand comb of corn, and can be replaced with new plates by an ordinary labourer in a few minutes, rendering the mill equal to new. The feed is simple and effective. They can be supplied with delivery spout at the side, as shown in illustration, at a suitable height from the ground to deliver direct into sacks, or to suit special cases the spout can be at the bottom, if so ordered. They can be worked by horse-gears, water-wheels, wind-mills or steam power.

EVERY MILL GUARANTEED. ONE MONTH'S FREE TRIAL ALLOWED.

#### Prices and approximate quantities ground per hour.\*

No. of Mill.	Diameter of Grinding Plates.	Capacity per hour, Fine Meal.	Capacity per hour, Kibbled or Split.	Horse Power required.	Diameter of Pulley.	Price of Mill and Pulley complete, ready for work.
		Bush.	Bush.			£ s. d.
W.S. 1	24 inch.	40 to 45	100	5 to 8	18 inches.	20 10 0
W.S. 2	18 "	20 " 25	70	4 " 5	14 "	14 10 0
W.S. 3	15 "	12 " 16	45	3 " 4	12 "	13 10 0
W.S. 4	13½ "	8 " 12	30	2 " 3	12 "	11 0 0
W.S. 5	12 "	6 " 8	20	1 " 2	10 "	8 10 0

\* NOTE.—The actual quantity depends upon the condition of the corn, and the degree of fineness to which it is ground; also the power available, and speed at which the mill is worked.

† Different size Pulleys to above can be supplied with Mills if specially ordered.

#### Prices of New Grinding Plates rendering Mill equal to new.

For W.S. 1 Mill, 30/- per pair; W.S. 2 Mill, 22/- per pair; W.S. 3 Mill, 20/- per pair; W.S. 4 Mill, 17/- per pair; W.S. 5 Mill, 12/- per pair.

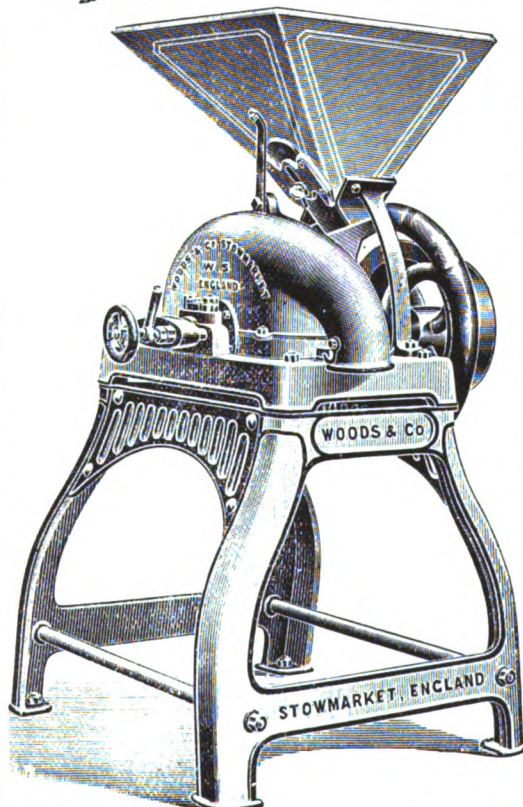
Loose Pulleys for W.S. 1 Mill, 20/-; W.S. 2, 15/-; W.S. 3, 12/-; W.S. 4, 12/-; W.S. 5, 10/- extra.

### PORTABLE GRINDING MILLS.

These Mills can be mounted on a Travelling Carriage with four wheels, the front wheels made to lock under, and are specially adapted for persons letting machinery out on hire, and for moving to different homesteads.

PRICE of Portable Carriage, Shafts, &c., complete for Nos. W.S. 1 and W.S. 2 Mills ... each extra, £10 0 0

" of Portable Carriage, Shafts, &c., complete for Nos. W.S. 3 and W.S. 4 Mills ... each extra, 7 0 0



### PATENT COMBINED GRINDING, KIBBLING and CRUSHING MILL.

For Grinding or Kibbling Barley, Maize, Beans, Peas, &c., and for Crushing Oats, Linseed, Barley, &c.

This Mill is a combination of our Grinding Mills as described above, and our well-known Corn and Seed Crushing Mills described on next page. It is a very compact and useful machine, and is arranged so that both crushing and grinding, or crushing and kibbling can be carried on simultaneously, or either operation can be performed separately as desired. The driving pulley runs at a slow speed, not over 150 revolutions per minute.

#### SIZES AND PRICES.

Size of Mill.	Diameter of Grinding Plates.	Size of Large Crushing Roll.	Will Grind per hour.	Will Crush per hour.	Power required.	Size of Driving Pulley on Mill.	PRICE of Mill and Driving Pulley ready for work.
	inches.	in. in.		bush.			£ s. d.
P.C. A1	18	42 × 7	20 bushels Fine Meal Kibbled ..	50	5 H.P.	24 × 6	33 0 0
P.C. 1	18	42 × 4	20 bushels Fine Meal Kibbled ..	30	4 H.P.	24 × 6	26 10 0
P.C. 2	12	38 × 3½	8 bushels Fine Meal Kibbled ..	16	2 H.P.	18 × 4	16 10 0
P.C. 3	7½	18 × 4½	4 bushels Fine Meal Kibbled ..	5	One or Two horse-gear.	14 × 4	10 10 0
P.C. 4	7½	18 × 3	2 bushels Fine Meal Kibbled ..	2	For hand power.	—	8 10 0

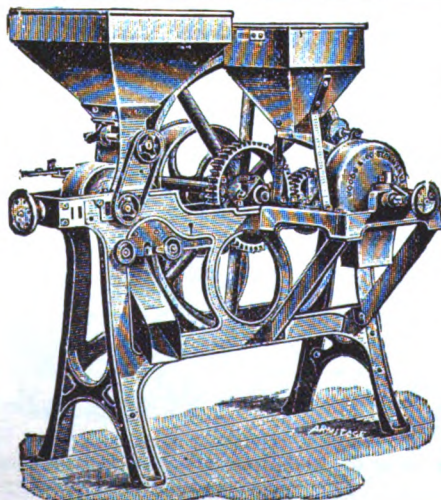
#### Prices of New Grinding Plates, rendering Mill equal to new.

For P.C. A1 and P.C. 1 Mills, 22/- per pair; P.C. 2, 12/- per pair; P.C. 3 and P.C. 4, 8/- per pair. Mortice Gearing for P.C. A1 and P.C. 1 Mills, 20/- extra; for P.C. 2 Mill, 15/- extra.

**Travelling Carriage.**—The Mill can be mounted on a Portable Travelling Carriage with four wheels, with the front wheels made to lock under, and are specially adapted for persons letting machinery for hire.

PRICE of Portable Carriage, Shafts, &c., complete for P.C. A1 and P.C. 1 Mills, each extra, £8 0 0  
P.C. 2 Mill .. .. . 5 0 0

**ILLUSTRATED PRICE LISTS of WOODS & CO.'S SPECIALTIES in Horse Gears and Stock-feeding Machines, sent Post Free on application.**





# WOODS & CO.,

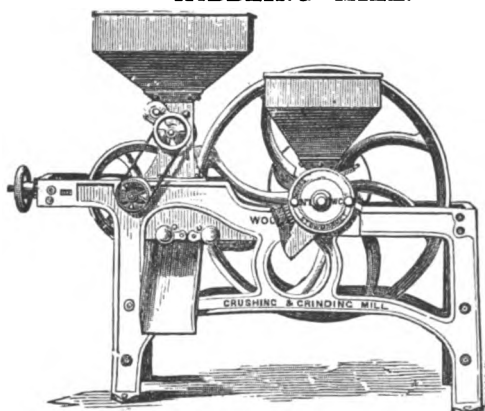
## AGRICULTURAL ENGINEERS,

### STOWMARKET, SUFFOLK.

Established 1812.

Gold Medal, Paris Exhibition, 1878 and 1889—Highest Award in Class.

Gold Medal and First Prize of the Royal Agricultural Society of England.

**UNIVERSAL ROLLER CRUSHING and KIBBLING MILL.**

CRUSH  
YOUR  
OATS  
and  
SAVE  
25%  
IN FOOD  
for  
HORSES  
and  
STOCK.

### WOODS & CO.'S UNIVERSAL ROLLER CORN and SEED CRUSHERS and KIBBLERS.

For crushing Oats, Linseed, Malt, Barley, Wheat, and for Kibbling or Cracking Maize, Beans, Peas, &amp;c.

It is well known that horses and poultry thrive best on Crushed Corn, whilst the direct saving in feeding horses with Crushed Oats is about one-third; with old horses which cannot properly masticate their food, the saving is considerably more. These Mills are equally valuable for all kinds of Stock.

**SIZES AND PRICES.**

No. of Mill.	Oats Crushed per hour.	Beans Kibbled per hour.	Size of Large Crushing Roller.	*Approx. Power required.	Price of Mill.
	bush.	bush.	in. in.		£ s. d.
W.C. A1	50	40	42 x 7	5 H.P.	25 0 0
W.C. 1	25	30	42 x 4	4 "	17 10 0
W.C. 2	10	16	38 x 3½	2 "	11 5 0
W.C. 4	6	6	18 x 4½	1 "	8 10 0
W.C. 3	3	3	18 x 3	1 Man	6 5 0

These Mills will crush or bruise the corn without separating the flour from the husk. They will also crack or kibble fine or coarse as required.

**ROLLER CORN and SEED CRUSHERS.**

For Crushing Oats, Linseed, Malt, Barley, &amp;c.

The Crushing part of these Mills is the same as for the Universal Mills, illustrated above, but they are not fitted with Kibbling arrangement. This Roller Crushing Mill is most easily worked, the adjustments being of a most simple character. It will Crush all seeds into the finest Meal. Seeds containing oil do not require to be mixed with any other seed whilst being crushed.

**SIZES AND PRICES.**

No. of Mill.	† Oats Crushed per hour.	Size of Large Crushing Roller.	* Approx. Power required.	Price of Mill.
	bushels.	in. in.		£ s. d.
A1	50	42 x 7	3½ H.P.	21 0 0
1	25	42 x 4	2½ "	14 0 0
2	10	38 x 3½	1 "	9 5 0
4	6	18 x 4½	2 Men	6 10 0
3	3	18 x 3	1 Man	5 0 0

These Mills will crush or bruise the corn without separating the flour from the husk.

\* Power depends on quantity crushed or kibbled, which can be regulated to suit power, whether more or less than given above.  
† Will crush three times this quantity of malt.

**No. 7 MALT MILL, rollers 18 x 9 in.,**

Will crush 60 bushels of malt per hour .. .. PRICE £10 10 0

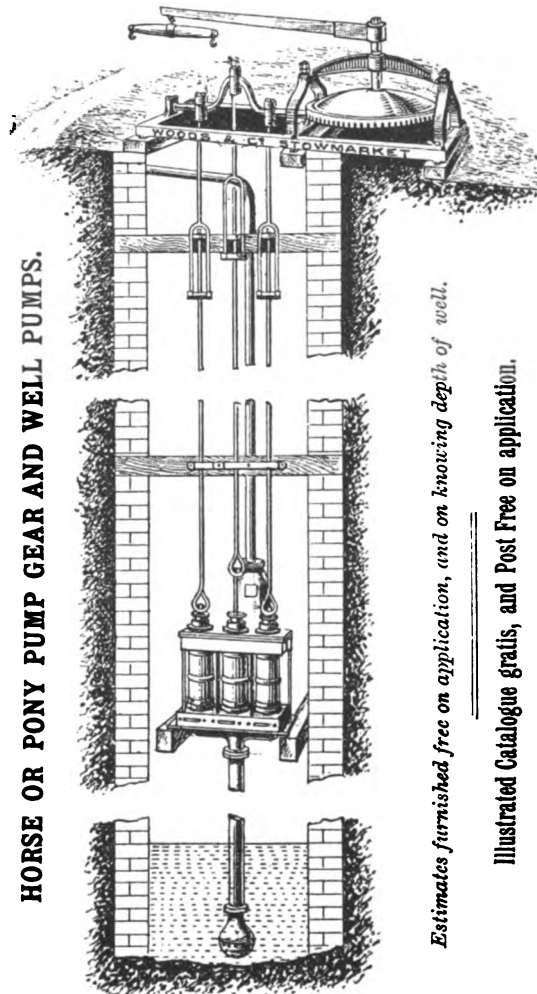
**VERTICAL ENGINES.**

These Steam Engines and Boilers are strongly constructed, simple and economical. Require no expensive foundation and occupy little space. Extensively used for working Barn and Dairy Machinery, Pumps, Mills, &c.

**Prices of Engines and Boilers.**

Complete, ready for work.

1½ Horse-Power, Nominal..	£45 0 0
2 "	60 0 0
3 "	75 0 0
4 "	90 0 0
6 "	120 0 0
8 "	150 0 0

**HORSE OR PONY PUMP GEAR AND WELL PUMPS.**

Estimates furnished free on application, and on knowing depth of well.

Illustrated Catalogue gratis, and Post Free on application.



**R.A.S.E. (1892), FIRST PRIZE SINGLE PLOUGHS.**

Mark.	Suitable for	Will take	£	s.	d.
SL	Light Soil	1 Light Horse	3	6	6
S	"	1 "	3	13	6
H	"	1 Horse	4	2	6
HS	Mixed Soils	1 or 2 Horses	4	12	6
HL	"	2 Horses	5	0	0
HP	All Soils	2 "	5	5	0
HPH	"	2 or 3 Horses	5	10	0

Skim Coulters 5s. extra. Steel Breasts, 4s. to 5s. extra.

**R.A.S.E. (1892), FIRST PRIZE DIGGING PLOUGHS.**

Winner of the Four Highest Prizes ever offered.



W C D (for light and mixed soils), Skim Coulters and Chilled Breast	£	s.	d.
A D (for all soils), Skim Coulters and Chilled Breast	4	5	0
IF WITHOUT SKIM COULTER, 5s. LESS.	4	10	0

**NEW PATTERN CHILLED DIGGING PLOUGHS.**

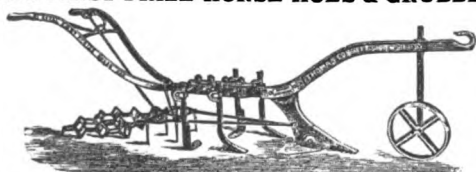
	c.	q.	lb.	£	s.	d.
N P Digging Plough and Skim, 2 Wheels	2	0	0	4	5	0
N P " " " 1 Wheel	1	3	0	4	0	0

IF WITHOUT SKIM COULTER, 5s. LESS.

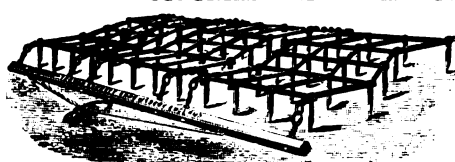
**R.A.S. FIRST PRIZE RIDGING PLOUGHS.**

Mark.	Iron Breasts	Steel Breasts.
R P, with 2 Wheels	£3 15 0	£4 2 6
R P, " 1 Wheel	3 10 0	3 17 6
R P, without Wheels	3 2 6	3 10 0

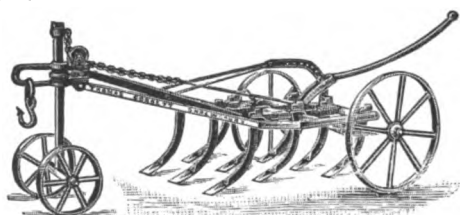
SET OF HOES, 10s. 6d. MARKER, 8s. 6d. extra.

**R.A.S.E. FIRST PRIZE HORSE HOES & GRUBBERS.**

T.H. Horse Hoe and Scarifier (as shown above)	£2 15 0
L.H. " " (lighter)	2 10 0
T.G. " " 3 Tines and 2 Cutters	3 10 0
L.G. " " (lighter)	3 5 0
B.T.G. Grubber and Sub-soiler, 5 Tines (1 Cast)	3 10 0
W.T.G. " " 5 Wrought Tines	3 10 0
C.T.H.R. Hoe and Scarifier with Ridge Body and Swivel	
Copail complete	4 0 0
CRPH, ditto but with 5 Tines and much stronger	5 10 0

**FIRST PRIZE "COLONIAL" TINE HARROWS.**

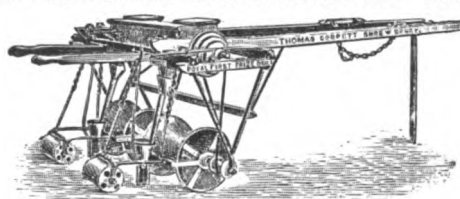
Mark.	Width ft. in.	Weight c. 3 lbs.	£	s.	d.
C 1 Seed Harrows	7 0	3 14	2	17	6
C 2 for 1 Horse	7 6	1 0 0	3	3	0
C 3 for 1 or 2 Horses	8 6	1 1 14	3	10	0
C 4 for 2 Horses	8 6	1 2 0	3	15	0
C 5 for 2 Horses	9 0	1 2 14	4	0	0
C 6 for 2 or 3 Horses	9 6	1 3 0	4	5	0
C 7 for 2 or 3 Horses	9 6	1 3 21	4	12	6
C 8 for 3 Horses	10 0	2 1 0	5	0	0

**IMPROVED FIRST PRIZE LEVER CULTIVATORS.**

No.	Width	Tines	Horses	£	s.	d.
No. 1	3 ft. 6 in.	5	2	8	17	6
" 2	4 ft. 0 in.	7	2 or 3	10	5	0
" 3	5 ft. 0 in.	9	3 or 4	11	10	0
" 4	6 ft. 0 in.	11	4 to 6	13	10	0

LIGHT PATTERN.

No.	Width	Tines	Horses	£	s.	d.
No. 1 L	3 ft. 6 in.	5	2	7	17	6
" 2 L	4 ft. 0 in.	7	2 or 3	9	5	0
" 3 L	5 ft. 0 in.	9	3 or 4	10	10	0
" 4 L	6 ft. 0 in.	11	4 to 6	12	10	0

**R.A.S. FIRST PRIZE TURNIP & MANGOLD DRILLS.**

	£	s.	d.
TWO-ROW DRILL, WITH SHAFTS and Back Chain	6	0	0
Do. do. with large Driving Wheel at Front	5	15	0
One-Row Drill, fitted with 2 Concaves	2	5	0
Plain Rollers and Collars for Sowing on flat	1	5	0

**R.A.S.E. FIRST PRIZE CLOVER DRILLS.**

No.	Width	£	s.	d.
No. 1 Broadcast Barrow Drill, 9 feet wide	9	3	5	0
" 2 " " 12 " (recommended)	12	3	10	0
" 3 " " 15 "	15	4	0	0
" 4 Double Box " 9 "	9	5	0	0
" 5 " " 12 "	12	5	10	0

Drills of any length to order.

**CAMBRIDGE, SEGMENT AND CYLINDER ROLLERS. Prices on Application.****THOMAS CORBETT, Perseverance Iron Works, SHREWSBURY.**

T. CORBETT'S Manufactures have gained upwards of **700 ROYAL** and other Societies **FIRST PRIZES** since 1867, against the **WORLD.**

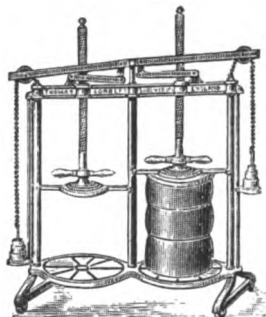


**Cheese Stools,**  
With Wood or Iron  
Legs.

Prices on application.

Illustrated  
Catalogues  
on application.

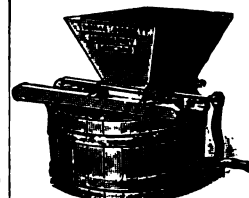
**"TINY" PATTERN CHEESE PRESSES.**



Double "Tiny" Cheese Press, 18 in. wide,  
**£5 0 0.**  
Single "Tiny" ditto, 18 in. wide, **£2 12 6.**

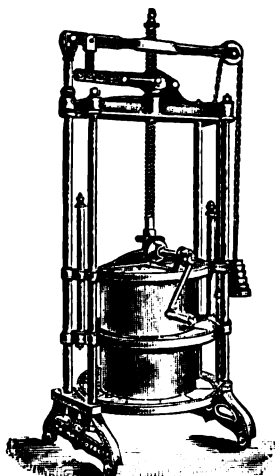
T. CORBETT'S CHEESE PRESSES have gained **EVERY FIRST PRIZE** competed for, including:

Paris,  
Sydney,  
Melbourne,  
Amsterdam  
(GOLD MEDAL),  
Buenos Ayres,  
Sandhurst,  
Christchurch,  
London,  
Birmingham,  
&c.



No. 2  
**Cheshire Curd Mill,**  
For Tub or Vat.  
**£1 15 0.**

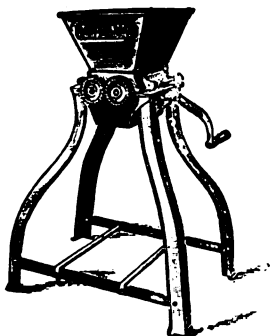
**GOLD MEDAL  
First Prize, "International"  
Double Chamber Cheese Presses.**



No. 0 D, 18 in. wide .. **£5 7 6**  
No. 1 D, 20 in. " .. **5 12 6**  
No. 2 D, 22 in. " .. **6 2 6**  
No. 3 D, 24 in. " .. **6 7 6**  
Turned & Polished Standards **7 6**

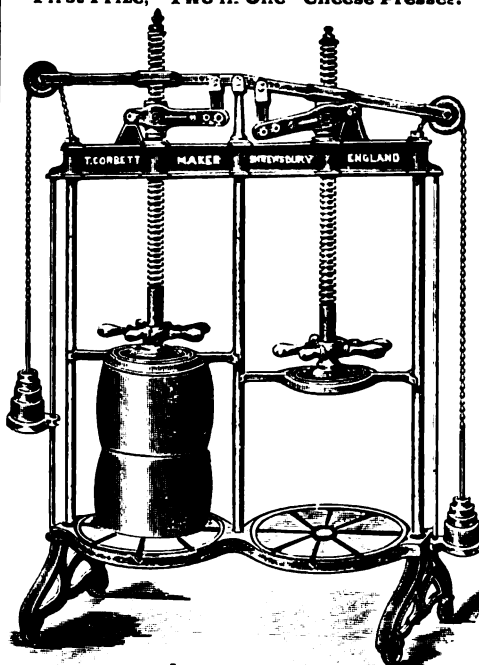
Prices include Double Shooter Boards and Portable Collars, on Short Standards.

**R.A.S.E. First Prize Curd Mill.**

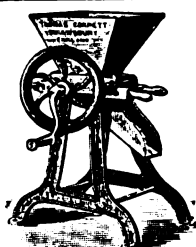


No. 3 B. **Bristol Curd Mill.**  
With Double Rollers **£2 15 0.**

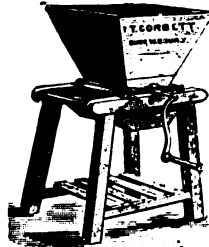
**First Prize, "Two in. One" Cheese Presser.**



A 3, Press, 18 in. wide, between standards .. **£5 17 6**  
A 4, " 20 in. " " " .. **6 10 0**  
A 5, " 22 in. " " " .. **7 0 0**  
A 6, " 24 in. " " " .. **7 10 0**  
Fitted with Polished Standards extra **6 0**

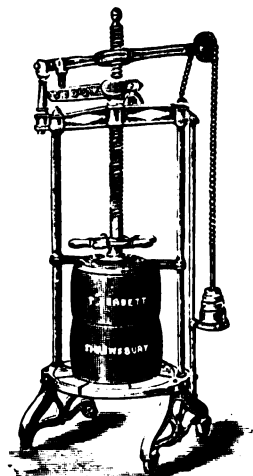


No. 5. **Cheddar Curd Mill.** **£2 7 6.**



No. 1. **Cheshire Curd Mill.** **£2 5 0.**

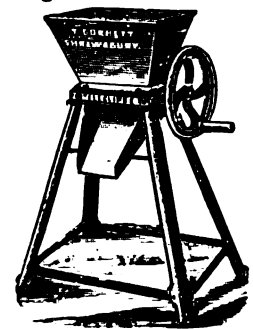
**First Prize, Lever, Single  
Chamber Cheese Presses.**



No. 0, 18 in. wide .. **£3 2 6**  
No. 1, 20 in. " .. **3 10 0**  
No. 2, 22 in. " .. **3 15 0**  
No. 3, 24 in. " .. **4 2 6**  
No. 4, 26 in. " .. **4 10 0**  
Turned & Polished Standards **4 0**

All T.C.'s Presses are fitted with Rollers, to facilitate removal.

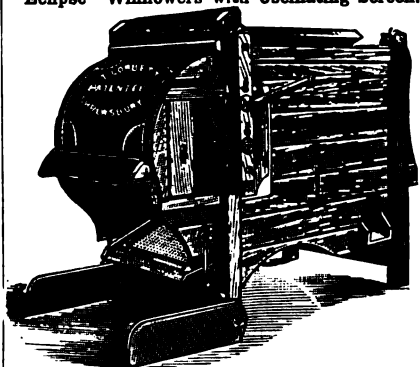
**Single Roller Curd Mill.**



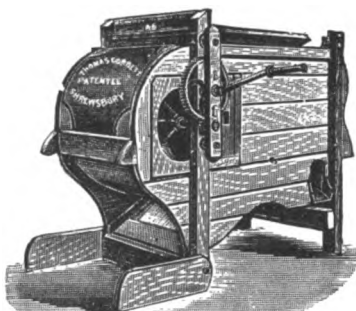
No. 1 B. **"Eclipse" Curd Mill.**  
**£2 5 0.**

**THOMAS CORBETT, Perseverance Iron Works, SHREWSBURY.**



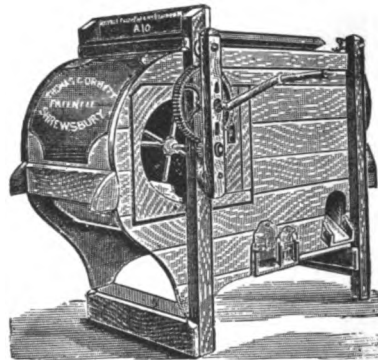
**"Eclipse" Winnowers with Oscillating Screen.**

A 1, Riddles, 22 in. by 18 in. ...	£10 12 6
A 2 " 21 in. by 18 in. ...	10 5 0
A 3 " 20 in. by 18 in. ...	9 15 0
A 4 " 18 in. by 18 in. ...	9 0 0
A 5 " 16 in. by 18 in. ...	8 10 0

**Fixed Screen Winnowers.**

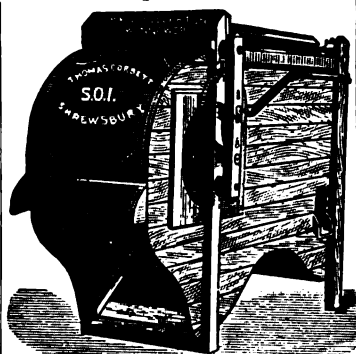
A 6, Riddles, 23 in. by 18 in. ...	£8 10 0
A 7 " 23 in. by 18 in. ...	8 0 0
A 8 " 19 in. by 18 in. ...	7 10 0
A 9 " 16 in. by 18 in. ...	6 15 0

**RIDDLES FOR WHEAT, OATS, BARLEY, BEANS, &c., included in Prices of all T. Corbett's Winnowers.**

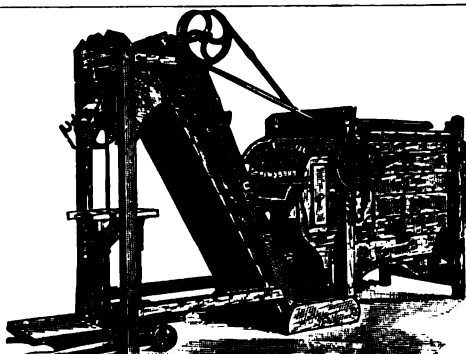
**Side Delivery Winnowers.**

A 10, Riddles, 20 in. by 18 in. ...	£8 5 0
A 11 " 18 in. by 18 in. ...	7 15 0
A 12 " 16 in. by 18 in. ...	7 0 0

*All T. C.'s Winnowers are Oak Framed and Varnished, making them exceedingly durable.*

**"Small Occupation" Winnowers.**

S S O, Riddles, 20 in. by 16 in. ...	£6 12 6
S O 1 " 18 in. by 16 in. ...	5 17 6
S O 2 " 15 in. by 16 in. ...	5 10 0



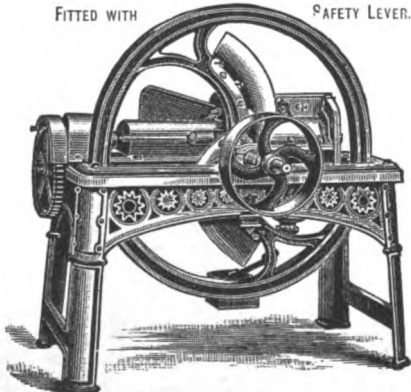
First Prize Patent "Eclipse" Winnower (A 2) ...	£10 5 0
Corn Elevator, with Pulley complete ...	5 5 0
Weighing Machine to weigh 8 cwt. and Bag Apparatus ...	2 16 6
Pulley for Spindle of Winnower ...	5 0 0
Driving Band for Winnower ...	6 6
<b>TOTAL</b> ...	<b>£18 14 0</b>

**Side Delivery Winnowers.**

H F 1, Riddles, 20 in. by 18 in. ...	£7 5 0
H F 2 " 18 in. by 18 in. ...	6 15 0
H F 3 " 16 in. by 18 in. ...	6 5 0

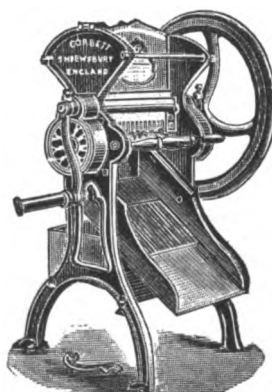
**Iron Frame "Star" Chaff Cutters.**

FITTED WITH SAFETY LEVER.



No. 9, Mouthpiece, 18½ in. 3 Knives ...	£14 5 0
" 8 " 11 in. 3 " ...	11 5 0
" 6 " 13½ in. 2 " ...	13 0 0
" 5 " 11 in. 2 " ...	9 17 6
" 4 " 9½ in. 2 " ...	8 15 0

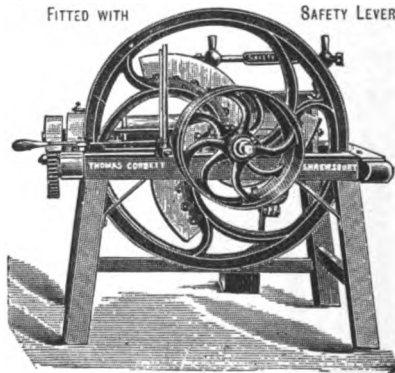
Pulleys and Feeding Web extra.

**First Prize Oil-cake Mills.**

A 16, Mouthpiece, 16 in. ...	£3 15 0
A 14 " 14 in. ...	3 12 0
A 1 " 12½ in. ...	3 7 6
A 2 " 15 in. ...	3 5 0
A 3 " 12½ in. ...	3 3 0

**Wood Frame "Duro" Chaff Cutters.**

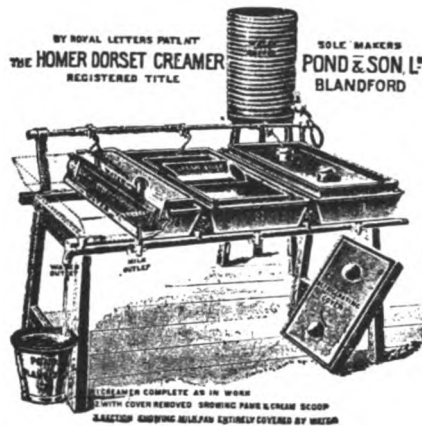
FITTED WITH SAFETY LEVER.



9 W F, Mouthpiece, 14 in. 8 Knives ...	£15 15 0
8 W F " 12 in. 8 " ...	12 10 0
6 W F " 14 in. 2 " ...	14 10 0
5 W F " 12 in. 2 " ...	10 17 6
4 W F " 10½ in. 2 " ...	9 17 6

**12 First Prizes, Gold Medals, &c., all competed for.**  
Pulleys and Feeding Web extra

**THOMAS CORBETT, Perseverance Iron Works, SHREWSBURY.**



## The Hemer Dorset Creamer,

Awarded the Medal of  
THE BRITISH DAIRY FARMERS' ASSOCIATION,  
London Dairy Show, 1893,

*The only Award given to Creamers or Separators Exhibited  
at this Show.*

NOTE.—The "Homer" Dorset Creamer is a registered title,  
and is protected by two distinct Patents.

INFRINGEMENTS WILL BE RIGIDLY DEALT WITH.

## POND'S First Prize Cheddar Cheese Tub, WITH Jacketed Whey Heater,

AS SUPPLIED TO THE

Bath and West of England Agricultural Society's Cheese Schools,  
The Wiltshire County Council Cheese Schools,  
The Somersetshire County Council Cheese Schools.



## POND'S Gold Medal Cheddar Cheese- Making Apparatus,

AS SUPPLIED TO

HER MAJESTY'S GOVERNMENT,  
The British Dairy Institute,  
The Downton College of Agriculture,  
The Royal Agricultural Society of England,

AND AS NOW USED BY THE

LEADING CHEDDAR CHEESE MAKERS.

Extract from *Royal Agriculture at Royal Windsor* :—

"There is no other Apparatus made to equal it."



# POND & SON, Ltd., Prize Dairy Works, BLANDFORD.

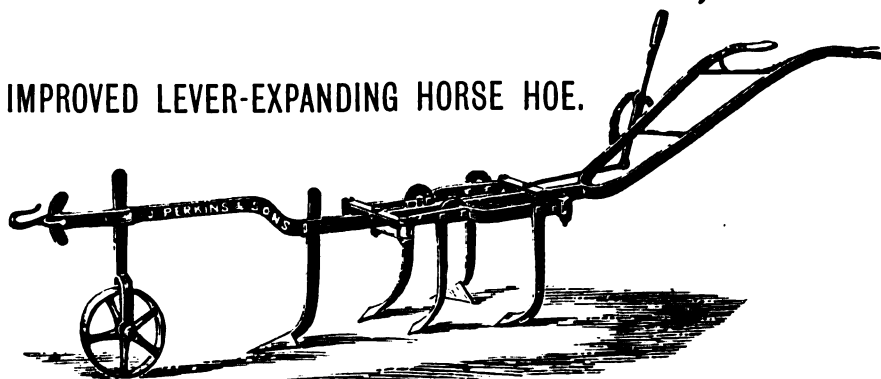
London Office: 22, BASINGHALL ST., E.C.

# JOHN PERKINS & SONS,

*Agricultural and General Engineers,*

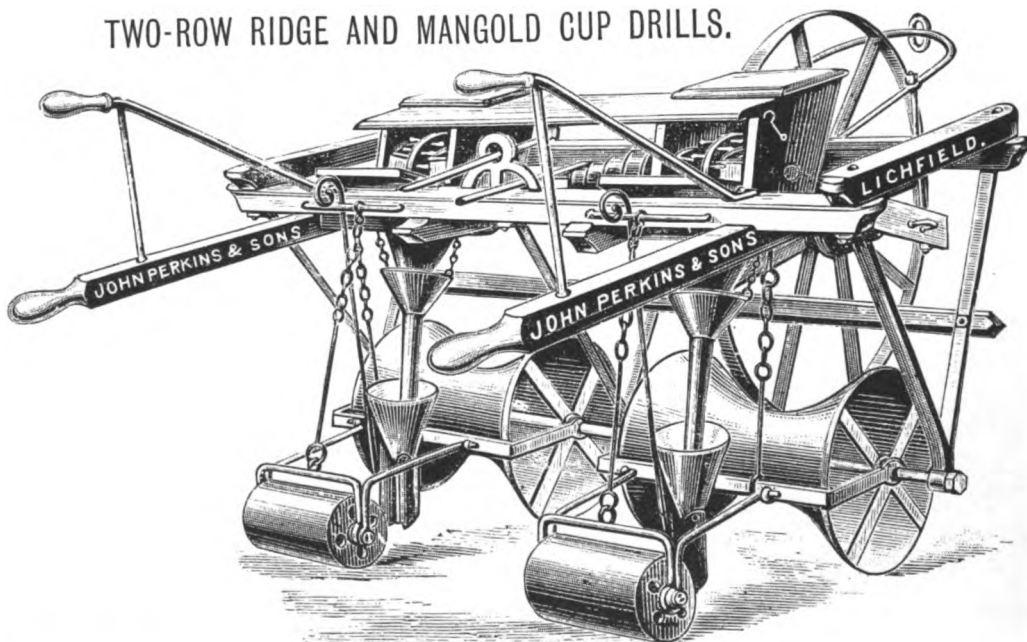
## SANDFORD STREET IRONWORKS, LICHFIELD.

IMPROVED LEVER-EXPANDING HORSE HOE.



This is a single-row Horse Hoe. It is fitted with lever-expanding apparatus to regulate the distance between the Hoes, which can be most readily accomplished while the Hoe is in motion. **Price £3 5s.**

TWO-ROW RIDGE AND MANGOLD CUP DRILLS.



**This Two-Row Wheel Cup Drill** is fitted with Cast Iron Concave Rollers, Covering Rollers, Cast Chilled Coulters, and all the most recent Improvements, will **work on any soil**, and is easily drawn by one horse or pony. Printed instructions sent with each drill.

Improved Drill, as above drawing	...	...	...	...	...	...	...	£	s.	d.
" " with Shafts	...	...	...	...	...	...	...	5	15	0
" " One-Row Drill	...	...	...	...	...	...	...	6	0	0
	...	...	...	...	...	...	...	3	7	6

**R.A.S.E., 1892, Warwick—PRIZE PLOUGH.**  
SINGLE FURROW PLOUGHS.**Prices:—**

		£	s.	d.
Improved Pony Plough, P.V.O., weight 1½ cwt.	..	3	5	0
Do. Light land Plough, P.V.O., weight 2½ cwt.	..	3	15	0
Do. Plough, W.J., 2, with Steel Breast, weight 2½ cwt.	..	4	10	0
Do. do. W.J., with Lever Neck	..	5	0	0
Do. do. W.P.U., weight 2½ cwt.	..	4	15	0
Do. do. with Lever Neck	..	5	5	0

Skim Coulters, 5/- extra.

**R.A.S.E., 1892, Warwick—FIRST PRIZE PLOUGH.**  
THE PLOUGH FOR THE TIMES.**Price:—**

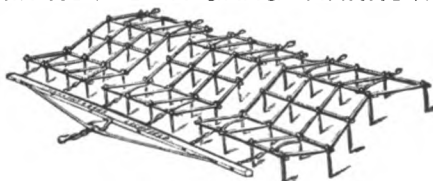
M2.—Plough for two or three horses, weight 2½ cwt., with Skim Coulters	£	s.	d.
	4	0	0

**NEW IMPROVED PLOUGH.**  
THE IMPLEMENT OF THE FUTURE.**Price:—**

W.G. Plough, weight 2½ cwt.	£	s.	d.
	4	0	0

**NEW PATTERN**  
**MOULDING & RIDGING PLOUGH.****Prices:—**

Mark.	Weight.	Cast Breast.	Steel Breast.	Marker, Frame and Cutter Hoe.
	C. Q. lbs.	£ s. d.	£ s. d.	
M.L.	1 1 0	3 0 0	3 5 0	..
P.Y.P.L.	1 1 0	3 5 0	3 10 0	..
P.H.P.	1 2 0	3 12 6	3 17 6	8s. 12s.
P.Y.L.	2 0 0	4 0 0	4 5 0	10s. 15s.

**J. PERKINS & SONS'**  
**IMPROVED ZIGZAG HARROW.****Prices:—**

No.	Weight.	Cast Breast.	Steel Breast.	Marker, Frame and Cutter Hoe.
	C. Q. lbs.	£ s. d.	£ s. d.	
No. 0, Set of 4-Beam Zigzag Harrows adapted for light land, with Whippletrees and Couplings, 7 ft. wide, weight 1 cwt.	..	..	..	2 7 6
" 1, Ditto, ditto, 7 ft. 6 in. wide, weight 1½ cwt.	..	..	..	2 17 6
" 2, Ditto, ditto, 8 ft. 6 in. wide, weight 1½ cwt.	..	..	..	2 5 6
" 3, Ditto, ditto, 9 ft. 6 in. wide, weight 2 cwt.	..	..	..	3 12 6
" 4, Ditto, ditto, 10 ft. wide, weight 2½ cwt.	..	..	..	4 2 6
Set of 3-Beam Zigzag Harrows adapted for Light land, with Whippletrees and Couplings	..	..	..	4 5 0
Ditto, ditto	..	..	..	4 12 6

Harrows made to cover any width.

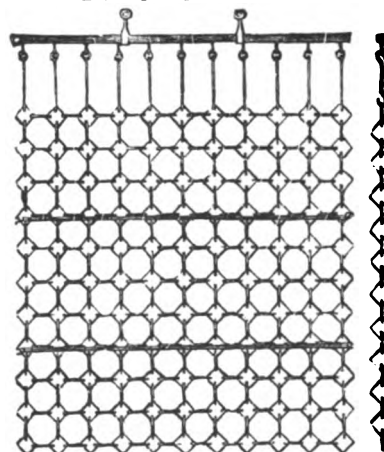
**IMPROVED**  
**WROUGHT IRON SCUFFLE OR SCARIFIER.****Prices:—**

	£	s.	d.
With Five Tines	5	10	0
With Seven Tines	6	10	0
With Nine Tines	7	10	0

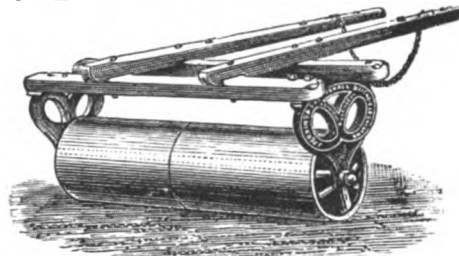
**IMPROVED LIGHTER PATTERN SCUFFLE.**

	£	s.	d.
With Five Tines	4	10	0
With Seven Tines	5	10	0

Shares, 10 inch, 10/-; 8 inch, 9/-; 6 inch, 8/-; Points 7/-.

**EXPANDING CHAIN HARROW.****Prices:—**

ORDINARY.				EXTRA HEAVY.			
No.	Wide.	Long.	£ s. d.	No.	Wide.	Long.	£ s. d.
1.	3 ft. x 7 ft. 6 in.	..	1 15 0	1A.	5 ft. x 7 ft. 6 in.	..	2 0 0
2.	6 ft. x 7 ft. 6 in.	..	2 0 0	2A.	6 ft. x 7 ft. 6 in.	..	2 5 0
3.	7 ft. x 7 ft. 6 in.	..	2 5 0	3A.	7 ft. x 7 ft. 6 in.	..	3 10 0
4.	8 ft. x 7 ft. 6 in.	..	3 12 6	4A.	8 ft. x 7 ft. 6 in.	..	3 0 0
5.	10 ft. x 7 ft. 6 in.	..	3 5 0	5A.	10 ft. x 7 ft. 6 in.	..	3 15 0

**WROUGHT IRON**  
**DOUBLE CYLINDER LAND ROLLER.****Prices:—**

Diams.	6 ft. wide.	7 ft. wide.	Diams.	6 ft. wide.	7 ft. wide.
	£ s.	£ s.		£ s.	£ s.
18 inch	8 10	9 6	24 inch	10 0	10 10
20 inch	9 0	10 0	27 inch	10 15	11 0
22 inch	9 10	10 15	30 inch	11 0	11 10

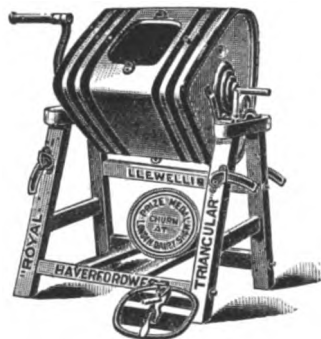
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# The Churn Question Settled ! The Best throughout the World !!

## G. LLEWELLIN & SON

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### THE FAMOUS "ROYAL TRIANGULAR" CHURN.



Lowest Cash Prices.		Carriage Paid.	
Size No.	Galls.	Lbs.	£ s. d.
0 to Churn	2 or up to	9 Butter...	8 5 0
1	5	15	8 15 0
2	9	25	4 12 6
3	12	35	5 5 0
4	16	45	5 16 6
5	20	60	6 5 0
6	25	75	6 15 0
7	30	90	7 5 0
8	38	120	8 0 0
9	45	150	8 15 0

#### QUEEN'S GOLD MEDAL and CHAMPION PRIZE

Awarded to Miss KEEL, using this Churn,  
R.A.S.E. Show, Windsor, 1892.

Used in the ROYAL SHOW DAIRIES.

These Churns ensure the  
MAXIMUM BUTTER YIELD,  
PERFECT GRANULATION,  
EASIEST WORKED and CLEANED.

### THE NEW PATENT "WINDSOR" BUTTER WORKER.



Lowest Cash Prices.		Carriage Paid.*	
WITHOUT STANDS.			
No.		£	s. d.
00 Villa, to dress 6 lbs.	...	1	7 0
0 15½ in.	10	1	12 6
1 17½	15	2	0 0
2 20	25	2	10 0
ON STANDS.			
00 Villa, to dress 6 lbs.	...	1	17 6
0 15½ in.	10	2	7 6
1 17½	15	3	0 0
2 20	25	3	10 0
3 24	35	4	0 0

#### LLEWELLIN'S BUTTER WORKERS

Awarded

#### FIRST PRIZE and SILVER MEDALS

Five Years in Succession

At the London Dairy Show,

Beating Bradford and all others in  
ACTUAL COMPETITION.

### AND THE "ROYAL ECCENTRIC" END- OVER CHURN.



Lowest Cash Prices.		Carriage Paid.	
Size No.	Galls.	Lbs.	£ s. d.
0 to Churn	2 or up to	9 Butter ...	8 5 0
1	5	15	8 15 0
1 1/2	6	20	4 0 0
2	9	25	4 12 6
3	12	35	5 5 0
4	16	45	5 16 6
5	20	60	6 5 0
6	25	75	6 15 0
7	30	90	7 5 0
8	38	120	7 15 0
9	45	150	8 10 0

The users of this Churn in Public Com-  
petitions have been awarded

**R.A.S.E. SILVER MEDAL,**  
WINDSOR, 1892.

**R.A.S.E. SILVER MEDAL,**  
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**H.A.S. FIRST PRIZE,**  
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**R. & W.E.S. GOLD MEDAL,**  
SWANSEA, 1892.

The above are fitted with  
Hot and Cold Water Temperature  
Chamber.

All our Churns are fitted with the latest genuine improvements of sterling value,  
including large Open Mouth and Eye-glass, both of which originated with us, but  
are now spuriously imitated.

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If you want a Churn or Butter Worker, get the Best; It is the Cheapest. Do not be deceived; See our  
Name on all Machines. We guarantee satisfaction. All Orders over £2 net, Carriage Paid.

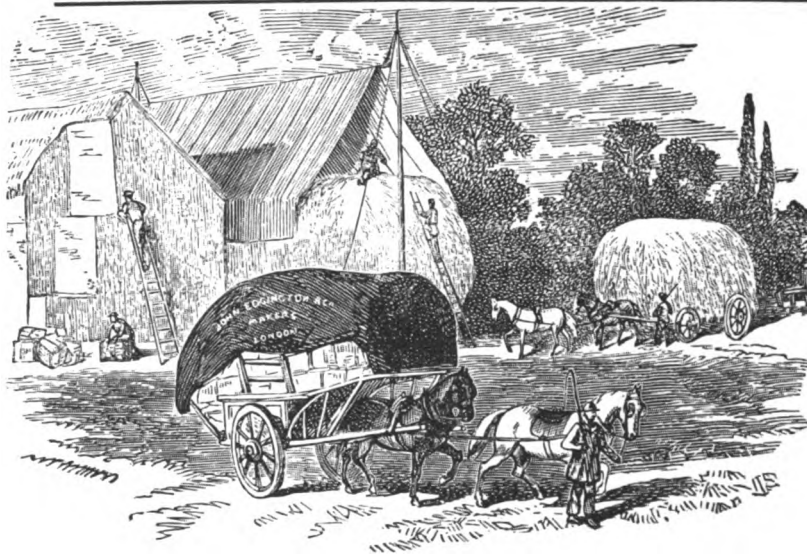
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APRONS,  
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LOIN COVERS,  
NOSE BAGS,  
SHEEP,  
RABBIT AND  
GAME  
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MARQUEES  
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FOR  
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SHOWS,  
FLAGS, BUNTING,  
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Corn, Flour, Chaff, Coal, &c.

Either Black, Yellow, or Oiled, for  
Portable & Traction Engines, Stacks,  
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Carts, Implements, &c.,

ALSO

Horse and Loin  
Covers, and Sacks  
as used for

70 YEARS.

Any size Cover not in stock  
can be made up complete  
in from 10 to 14 days  
after receipt of  
order.

**WILLIAM SINGLETON,  
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Manufacturer of  
SPECIAL EXTRA-  
STRONG WATERPROOF

COVERS (brown colour) very  
pliable, will neither break nor stick.

Any size not in stock can be made in  
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IMPROVED BLACK WATERPROOF COMPOSITION  
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OLD COVERS REPAIRED AND RE-DRESSED.

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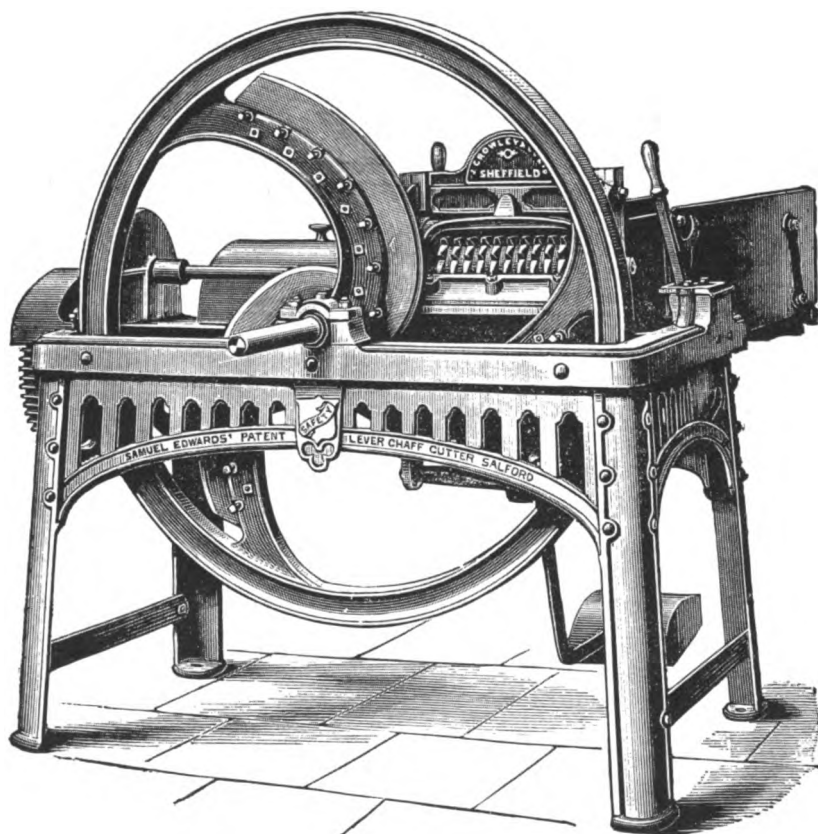
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**NEWLAND WORKS, LINCOLN.**



# SAMUEL EDWARDS' PATENT SAFETY LEVER CHAFF CUTTERS.

The only  
Chaff  
Cutter in  
the  
Market  
which  
Starts,  
Stops,  
Reverses  
and  
Alters the  
Length  
of Cut by  
one  
Lever.



All the  
various  
parts  
of these  
CHAFF  
CUTTERS  
have been  
carefully  
calculated  
for  
Strength,  
and Ease  
in Working.

## HAND POWER.

No.	00.	Chaff Cutter	..	..	..	..	£	s.	d.
..	1a.	..	..	Mouth, 8½ in. wide	..	..	1	17	6
..	2a.	..	..	Rising Mouth, 8½	..	..	2	12	6
..	2b.	(Concave knives)	..	8½	..	..	2	17	6
..	3.	..	..	9	..	..	4	0	0
..	3.	(With large fly-wheel),	..	9	..	..	4	5	0
..	3a.	..	..	9	..	..	5	10	0
..	3b.	(Pony-power)	..	9	..	..	6	2	6
..	3c.	..	..	11	..	..	4	15	0

## HORSE OR STEAM POWER.

No.	4e.	Rising mouth, 9 in. wide,	web and pulley extra.	£	s.	d.
..	5e.	..	9½	..	..	8 10 0
..	6e.	..	10½	..	..	9 17 6
..	7e.	..	11½	..	..	11 7 6
..	8e.	..	12½	..	..	13 15 0
..	9e.	..	13½	..	..	15 10 0
..	10e.	..	14½	..	..	20 0 0
..	12.	..	18	..	..	32 0 0

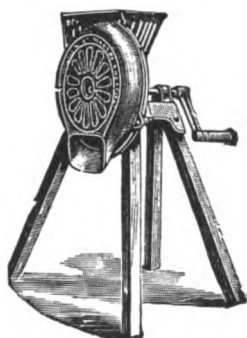
No. 7e. Chaff Cutter, fitted with Sifting Apparatus, complete .. .. £35 0 0

.. 10e. .. .. .. 60 0 0

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## In AGRICULTURAL MACHINERY.

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		£	s.	d.
No. 1, Price	.. ..	1	7	0
" 2 "	.. ..	1	14	6
" 3 "	.. ..	2	2	6
" 4 "	.. ..	2	0	0

COVERS EXTRA.

No. 4 can be supplied as a Slicer  
at the same price.

**THE "TIGER" PULPER.**

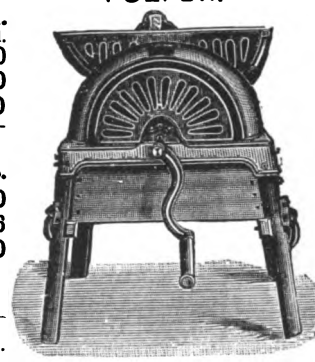
	£	s.	d.
No. 8 (4 knives)	3	10	0
" 9 (6 knives)	4	0	0
" 10 (8 knives)	5	0	0

**DOUBLE ACTION PULPERS & SLICERS.**

No. 11, Price	..	5	15	0
" 12 "	..	6	7	6
" 13 "	..	7	10	0

Knives for Cutting Finger  
Pieces, extra.

Also Barrel Turnip Cutters.

**PULPER.**

# CROWLEY'S PATENT HORSE GEAR

WAS AWARDED

The Royal Agricultural Society of England's Silver Medal, Carlisle, 1880,

ALSO

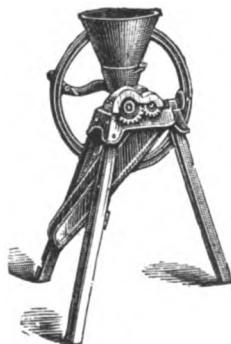
Silver Medals at Crewe, Oldham, Stoke-on-Trent, Towcester, and Leamington.

ALL  
THE WHEELS  
ARE MADE FROM  
MACHINE-CUT  
PATTERNS.



WITH COVERS  
TO PREVENT  
CATTLE  
GETTING HURT.

									£	s.	d.
Pony or Light Horse Gear	..	..	..	..	Diameter of Main Wheel.	Speed.	Size of Pulley.	..	9	2	6
Strong One-Horse Gear	..	..	..	..	2 ft. 8 in.	.. 30	12 in.	..	13	5	0
" " (with two poles)	..	..	..	..	3 ft. 4 in.	.. 37	16 in.	..	14	15	0
Extra Strong Two-Horse Gear	..	..	..	..	3 ft. 4 in.	.. 37	16 in.	..	16	10	0
	..	..	..	..	4 ft. 0 in.	.. 38	16 in.	..			

**IMPROVED CORN & BEAN MILLS.**

No. 0, Price £2 5 0



No. 1, Price £3 0 0

**IMPROVED CORN CRUSHER.****PRICE**

No. 2, £5 5 0

**PRICE**

No. 3, £6 15 0

**ROLLERS**

5" x 5"

**ROLLERS**

6" x 6"



No. 4, Price £8 0 0

Rollers 7" x 7"

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By Special Appointment



To H.R.H. the Prince of Wales.

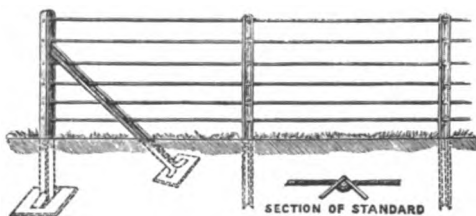
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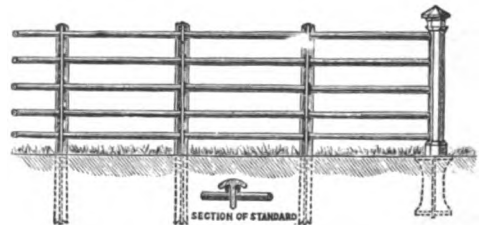
6, WATERLOO PLACE, PALL MALL, LONDON, S.W.,

AND

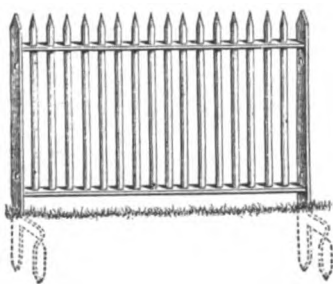
Wisemore Works, Walsall, Staffordshire.



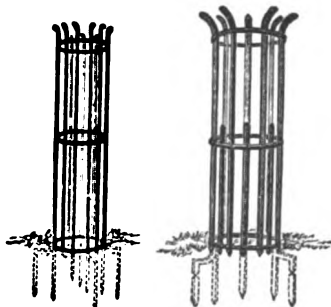
Patent Strained Wire Fencing.



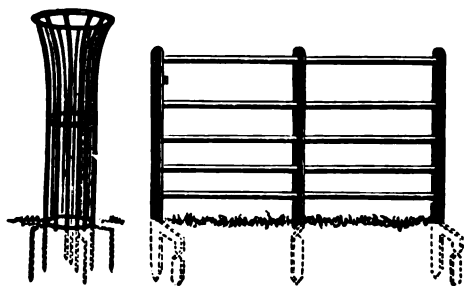
Patent Continuous Bar Fencing.



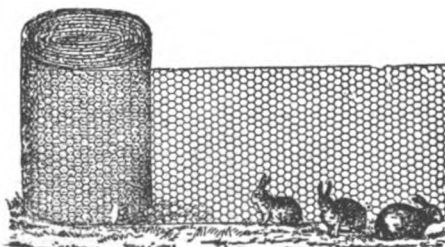
Unclimbable Hurdles.



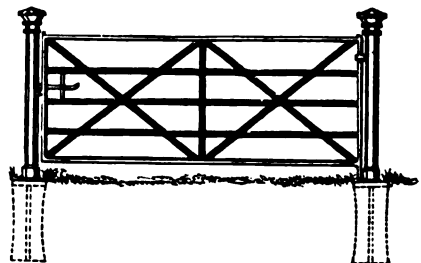
Wrought Iron Tree Guards.



Wrought Iron Hurdles.



Galvanized Wire Netting.

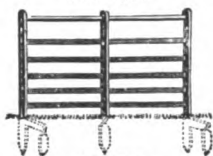


Wrought Iron Gates.

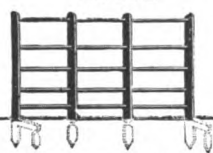
Illustrated Catalogue and Estimates Free on Application.

# BAYLISS, JONES & BAYLISS'

## WROUGHT IRON HURDLES. Flat Bars.



und Bars.



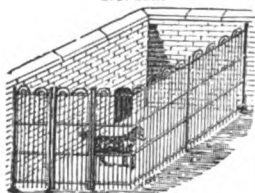
## FIELD GATE. No. 69.



## POULTRY AND LAWN TENNIS FENCING.



## DOG KENNEL RAILING. No. 18k.

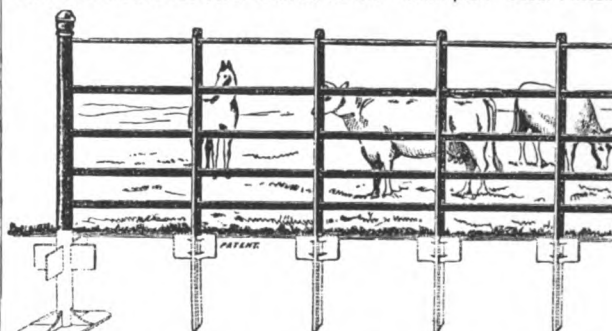


## ORNAMENTAL PALISADING.



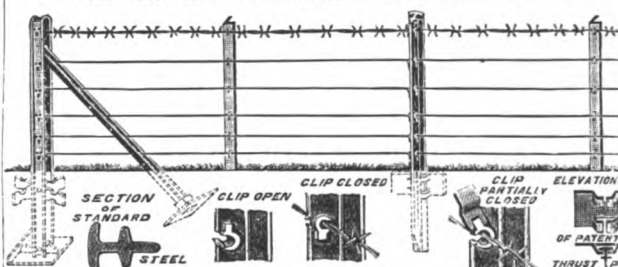
## CONTINUOUS BAR FENCING,

With Patent Bulb Tee Steel Standards and "Champion" Steel Plates.



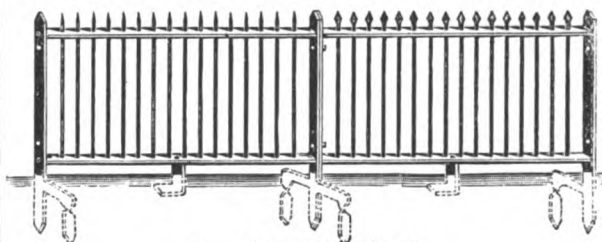
COPY OF TESTIMONIAL. (Specification No. 15 B.T.S.) July 4th, 1887.  
Gentlemen,—“We have put up just upon *two miles* of your No. 15 B.T.S. Continuous Fencing, with Bulb Tee Steel Standards and Thrust Plates. It is very easily fixed, and gives entire satisfaction. It is impossible to make a better fencing. It is neat and strong.”

## WIRE FENCING WITH PATENT “NATIONAL” STEEL STANDARDS AND PATENT MOVABLE CLIPS.



Threading Wire through Standards and Digging Holes avoided.

## UNCLIMBABLE WROUGHT IRON HURDLES AND RAILING.



AT VERY LOW PRICES.

ILLUSTRATED CATALOGUE OF ALL KINDS OF HURDLES,  
FENCING, GATES, &c., FREE ON APPLICATION.

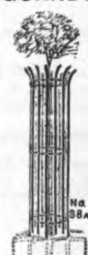
## SUPERIOR JET VARNISH.

From 1s. 8d.  
per Gallon.

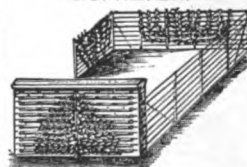


Casks included.

## TREE GUARDS.



## IRON AND WIRE ESPALIER.



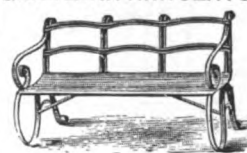
## FITTINGS FOR WIRING GARDEN WALLS.



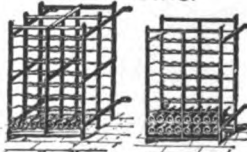
## FOOT-PATH GATES.



## WROUGHT-IRON GARDEN & PARK SEATS.



## WROUGHT-IRON WINE BINS.



STABLE FITTINGS, &c.

TELEGRAMS:—  
“BAYLISS,  
WOLVERHAMPTON.”  
“LOCKFAST,  
LONDON.”

MANUFACTORY:  
**VICTORIA WORKS, WOLVERHAMPTON.**

London Offices and Show-rooms:—139 & 141, CANNON STREET, E.C.

LISTS  
FREE.

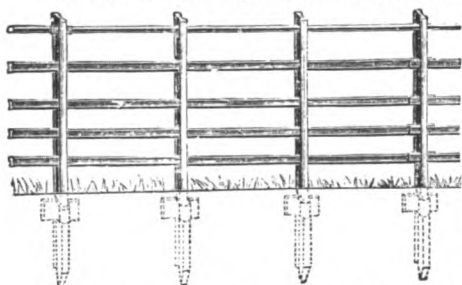
**BAYLISS, JONES & BAYLISS, VICTORIA WORKS, WOLVERHAMPTON.**

# A. & J. MAIN & Co.,

Manufacturers of Wrought-Iron Fencing, Railing, Hurdles, Gates, &c.,  
For Landed Estates, Farm, Park, or Garden.

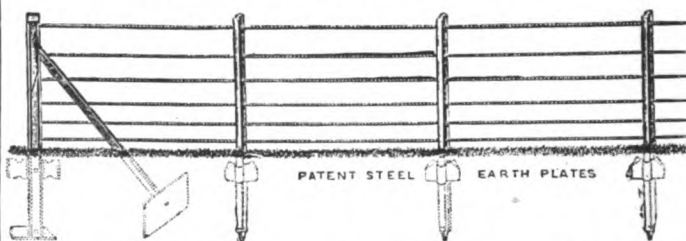
## SHEEP, CATTLE, AND DEER FENCING.

### "SPECIAL" STEEL BAR FENCING.



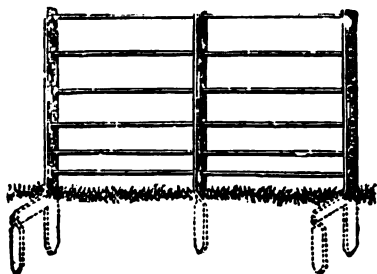
With special H Standards, Steel Earth Plates, and Steel Flat Bars. See Testimonials from users of quantities varying from Two to Fourteen Miles, representing Landed Estates, Public Companies, and Exhibition Parks.

### PATENT STRAINED WIRE FENCING.

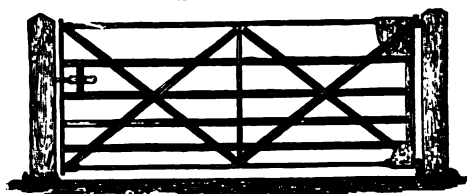


With H, T, and Bulb Angle Standards. Suitable for every variety of soil.

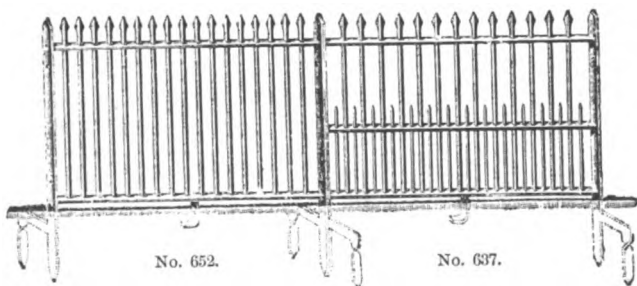
### SHEEP AND CATTLE HURDLES.



### STRONG WROUGHT-IRON FIELD GATES.

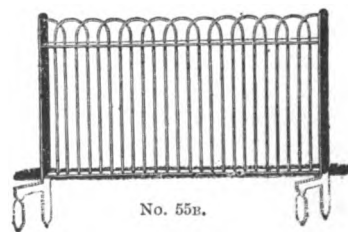


## UNCLIMBABLE BOUNDARY AND ROAD RAILING AND GATES. WROUGHT-IRON VERTICAL HURDLES.



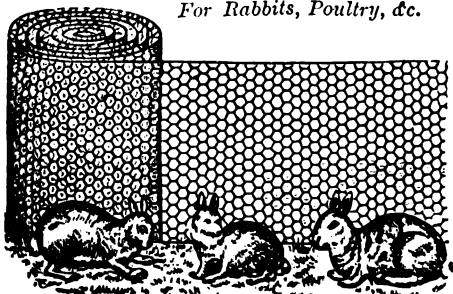
Supplied largely to the London Parks, County Councils, &c.

### ORNAMENTAL GARDEN HURDLES.



Suitable for Garden Division, Lawns, Terraces, &c.

### BEST QUALITY GALVANIZED WIRE NETTING, For Rabbits, Poultry, &c.



Made from superior wire, well galvanized, of full gauge, and correct mesh.

Special quotations for quantities.

### MAIN'S DIAMOND BLACK VARNISH.

Ready for use by ordinary labourers without preparation.



Casks of 20 and 40 gallons delivered free, cask included, at 1s. 6d. per gallon.

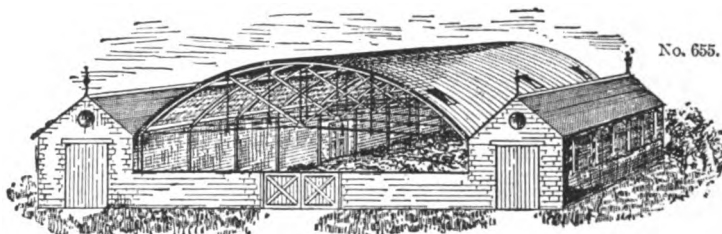
For coating Iron and Wood Fences. A satisfactory and economical substitute for oil paint for out-door work.

Special Fencing Catalogue Free by Post.

# 77a, Queen Victoria Street, LONDON, E.C. Clydesdale Iron Works, Possilpark, GLASGOW.

## MANUFACTURERS OF IRON ROOFS, SHEDDING AND BUILDINGS. COVERED CATTLE YARDS.

*Catalogue containing  
Plans to suit varied  
requirements, posted  
free on application.*



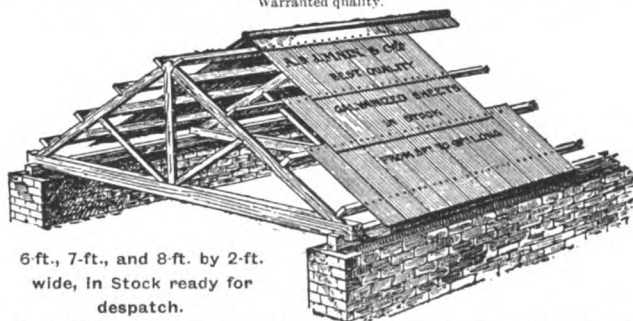
No. 655.

*Sites inspected and  
plans and estimates  
submitted without  
charge.*

Design No. 655 shows the application of a Single-Span Curved Roof under similar circumstances to that in Design No. 574, except that the roof is carried on iron columns, fixed close to the walls of the side buildings. The columns are frequently made higher than shown in this design, to allow for ventilation at the eaves. Approximate price about 10½d. per square foot of ground covered. Erection extra.

### GALVANIZED CORRUGATED ROOFING SHEETS.

Warranted quality.

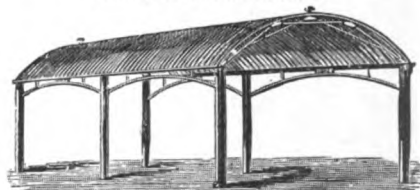


6-ft., 7-ft., and 8-ft. by 2-ft.  
wide, in Stock ready for  
despatch.

Cost of materials required, including Bolts, Screws, &c., estimated on receipt  
of dimensions of Proprietors' framing.

### GALVANIZED HAY AND GRAIN SHED.

Constructed without tie rods.



This form of Shed is very largely adopted for storing  
Hay and Grain. The trussing is arched so that the  
produce can be stored close to the roof, thus greatly  
increasing the capacity of the Shed. The Columns  
are malleable iron fixed into concrete foundations,  
with strong arched eaves-beams to resist lateral  
wind-pressure. Estimates on receipt of Dimensions  
including fixing, if required.

### GALVANIZED WATER-TANKS AND TROUGHS.



List of prices and sizes on application

### PREMIUM OBLONG CORN RICK-STANDS.

It will be observed from the illustration that A. & J. M. & Co. make  
these Stands with two intermediate Longitudinal Bars between each  
row of Pillars, instead of one only, as is very commonly done.



Price List of Oblong and Circular Stands on application.

## IMPROVED IRON STABLE FITTINGS.

### CORNER MANGER & RACK.



No. 11.



### STALL DIVISION.



### MANGER SETS.



No. 18.

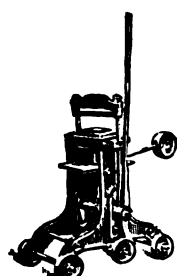


No. 23.

Price Lists on application. Complete sets of Fittings estimated on receipt of plan of Stables.

ROOFING AND MISCELLANEOUS CATALOGUES FREE BY POST.



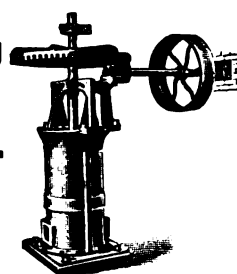


Lever Brick Press.

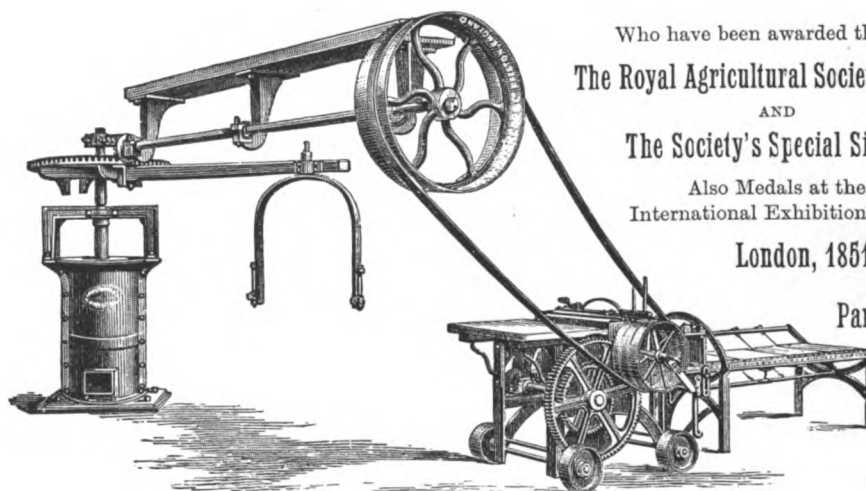
# BRICK, TILE, and PIPE MACHINES,

Unequalled for  
**DURABILITY and EFFICIENCY.**

MAKERS—

**JOHN WHITEHEAD & Co.,****Albert Works, PRESTON, LANCASHIRE,**

Vertical Pugmill.



Who have been awarded the Prizes of  
The Royal Agricultural Society of England

AND

The Society's Special Silver Medal;

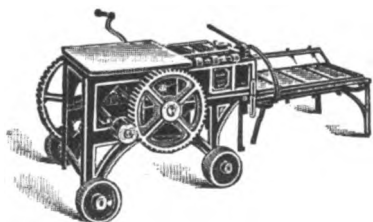
Also Medals at the Great  
International Exhibitions, including:

London, 1851, 1862, 1874,

Paris, 1855,

1867, 1878.

This illustration shows a very handy plant for an Estate yard to make bricks, tiles and drain-pipes; by substituting for the tug-pole and horse-bow an additional pulley on the line-shaft, the machinery can be driven by a small portable engine.

Hand Power Pipe, Tile and Brick Machine.  
No. 1.

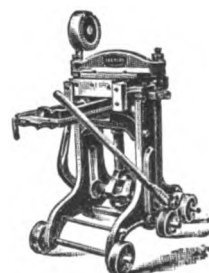
Machines for Hand, Animal, or  
Steam Power.

Estate Works Plant a Specialty.

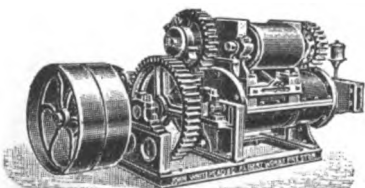
*All descriptions of*  
**CLAY-PREPARING MACHINERY.**

Illustrated Descriptive Catalogues by  
return post on application.

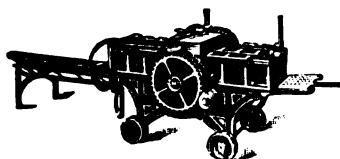
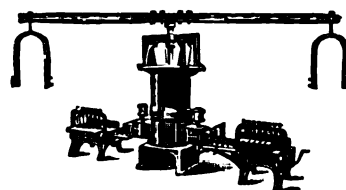
Telegrams: "BRICTILE," PRESTON.



Roof Tile Press.



Horizontal Brick Machine.—No. 6.

Double Chamber Pipe, Tile and Brick Machine.  
No. 2.

Animal Power Brick Machine.—No. 3c.

# PUMPING MACHINERY FOR EVERY SERVICE

BUILT BY THE PULSOMETER ENGINEERING CO. LD  
NINE ELMS IRON WORKS, LONDON SW & 61 & 63, QUEEN VICTORIA ST. E.C.

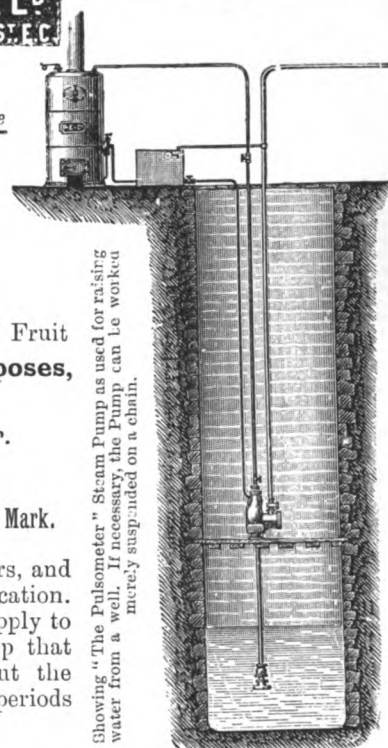
WRITE FOR LIST No. 49a, POST FREE,  
and, if possible, give particulars of work in view, when our advice and estimate  
will be forwarded gratis.

## \* PUMPS \*

For supplying Water from wells, streams or ponds, for Flower and Fruit  
Cultivation, **Supply to Mansions, Fire, Irrigation Purposes,**  
&c., and worked by  
Steam, Gas, Electrical, Horse Gear or Hand Power.

Trade "THE PULSOMETER" Mark.

PATENT STEAM PUMP is used by most of the leading Growers, and  
testimonials from a good many of them will be furnished on application.  
It is also extensively employed for raising Water from wells for Supply to  
Mansions, Farms, &c., and for Fire Purposes. It is a Steam Pump that  
can be worked by unskilled labour. It has no moving parts, but the  
simple and easy replaceable valves, and can be left running for long periods  
unattended on constant work.



Showing "The Pulsometer" Steam Pump as used for raising water from a well. If necessary, the Pump can be worked merely suspended on a chain.

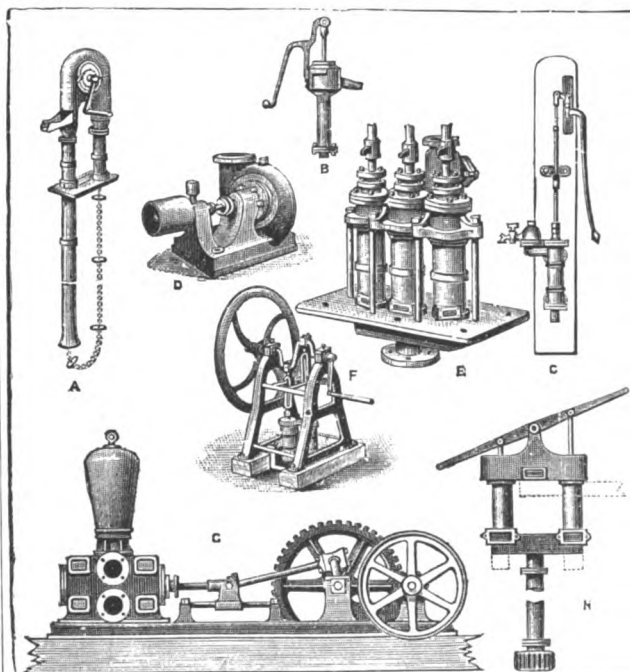
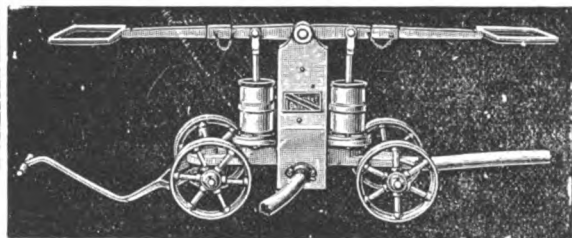
## Pumps, Pipes, Boilers, &c., ON HIRE,

With option of purchase by arrangement. ✓

The block at left illustrates several forms of Pumps, amongst which may be mentioned our Improved 3-throw Pumps, for very deep wells; Direct Acting Steam Pumps, for fire and general service; Centrifugal, Chain Pumps, &c. &c

## WATER SUPPLY in all its branches, OUR SPECIALITY.

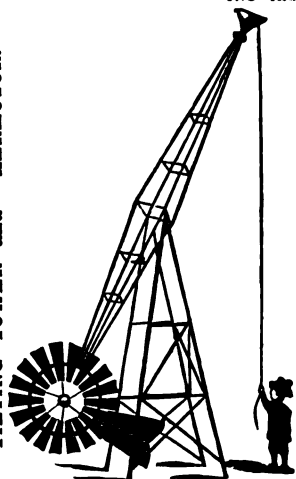
Improved Double-Barrel Portable Fire Engine,  
very powerful, compact and cheap.



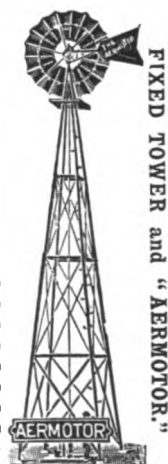
## PUMPING WIND-MILLS—"AERMOTOR."

It is not enough to make portions of a wheel of Galvanized Steel, that leaves exposed edges and is not so good as painting. The Steel "Aermotor" and Steel Towers are galvanized after being completed, this absolutely protects from rust and decay. The Towers are made in two forms, one a Fixture, where it is necessary to climb, examine, and oil; the other is made to Tilt, so as to allow the "Aermotor" to be lowered to the ground for oiling, &c., the labour and danger of climbing the tower is dispensed with.

## TILTING TOWER and "AERMOTOR."



8ft. dia. wheel, Pumping "Aermotor" .. .. .				<b>\$14 10 0</b>
12ft.     "             "             " .. .. .				<b>22 10 0</b>
16ft.     "             "             " .. .. .				<b>66 10 0</b>
<b>FOR DRIVING MACHINERY.</b>				
12ft. dia. Geared "Aermotor," with all necessary Vertical				
Shafting .. .. .				<b>\$39 0 0</b>
16ft. dia. Geared "Aermotor," with all necessary Vertical				
Shafting .. .. .				<b>76 0 0</b>
		For 8ft.		For 12ft.
30ft. high, Steel Fixed Tower .. .. .	<b>\$12 10 0</b>		<b>\$28 10 0</b>	
40ft.     "             "             " .. .. .	<b>16 0 0</b>		<b>32 0 0</b>	
50ft.     "             "             " .. .. .	<b>20 0 0</b>		<b>40 0 0</b>	
60ft.     "             "             " .. .. .	<b>23 10 0</b>		<b>48 0 0</b>	
70ft.     "             "             " .. .. .	<b>27 10 0</b>		<b>55 0 0</b>	
80ft.     "             "             " .. .. .	<b>32 0 0</b>		<b>65 0 0</b>	
30ft.     "             "             "     Tilting Tower .. .. .	<b>20 0 0</b>		<b>40 0 0</b>	
40ft.     "             "             "     " .. .. .	<b>26 0 0</b>		<b>52 0 0</b>	
50ft.     "             "             "     " .. .. .	<b>33 0 0</b>		<b>66 0 0</b>	
60ft.     "             "             "     " .. .. .	<b>38 0 0</b>		<b>77 0 0</b>	
70ft.     "             "             "     " .. .. .	<b>45 0 0</b>		<b>92 0 0</b>	
80ft.     "             "             "     " .. .. .	<b>52 0 0</b>		<b>110 0 0</b>	



*For price of Tanks, Pumps, Pipe Fittings, &c., send requirements and special quotations will be furnished.*

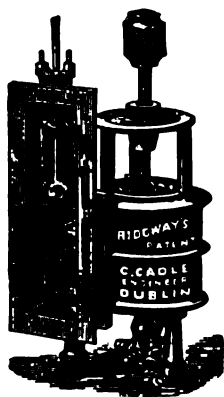
**Artesian Wells Bored, Tube Wells Driven, Horse, Hand, Steam and Wind-mill Pumps, Gas, Oil and Steam Engines, Hot-air Motors supplied.**

## A PERFECT WATER-WHEEL AT LAST

**For Driving Farm and Estate Machinery, Pumps, Mills, Electric Light, &c.**

### PRICE LIST OF SINGLE STANDARD WHEELS.

Price of 6in. Wheel,	<b>£40.</b>	2 H.P. on 15ft. fall.
8in.	<b>45.</b>	4    "    "
10in.	<b>48.</b>	6    "    "
12in.	<b>50.</b>	8    "    "
14in.	<b>52.</b>	14   "   "
16in.	<b>56.</b>	18   "   "
18in.	<b>60.</b>	20   "   "
21in.	<b>68.</b>	30   "   "
24in.	<b>80.</b>	38   "   "
27in.	<b>98.</b>	48   "   "
30in.	<b>120.</b>	58   "   "
36in.	<b>160.</b>	86   "   "
42in.	<b>198.</b>	122   "   "



Price of	Gin. Wheel,	<b>£16.</b>	1 H.P. on 15ft. fall.
"	8in.	<b>20.</b>	2 " "
"	10in.	<b>24.</b>	3 " "
"	12in.	<b>27.</b>	4 " "
"	14in.	<b>30.</b>	7 " "
"	16in.	<b>35.</b>	9 " "
"	18in.	<b>40.</b>	10 " "
"	21in.	<b>48.</b>	15 " "
"	24in.	<b>63.</b>	19 " "
"	27in.	<b>70.</b>	24 " "
"	30in.	<b>80.</b>	29 " "
"	36in.	<b>95.</b>	43 " "
"	42in.	<b>110.</b>	61 " "

PATENT No. 5486, A.D. 1888.

Patented in Great Britain, United States, Canada, and other Foreign Countries.

THIS illustration represents a complete "DOUBLE PERFECTION" TURBINE WATER-WHEEL, ready to set in a pit, attach the pipe for conducting the water from the stream or pond, for supplying the wheel, and upright shafting. It clearly shows what is furnished for the price. From the cut will be seen the great simplicity, compactness, and portability of the "Double Perfection," far surpassing any other wheel for transport to near and distant parts.

Descriptive Catalogue sent on application. Estimates furnished on receipt of full quantity of water available and horse-power required.

**C. CADLE, ENGINEER, 39, WELLINGTON QUAY, DUBLIN.**

# SIMPLEX WIND ENGINES

**Furnish the Cheapest Power for Pumping Water Supplies, Draining, and Irrigation.**

**Suitable for Farms, Sheep and Cattle Runs, Mansions and Public Institutions, Grinding Corn, Root Pulping, Chaff Cutting, Electric Lighting, and a variety of other work.**

## **Wind Engines for Irrigation or Draining.**

Wind Power is the cheapest method of draining low lands, or for irrigating land in climates subject to droughts, and cannot be surpassed for Draining Quarries, Mines, &c.

## **Wind Engines for Railways.**

Can be used for Pumping Water into elevated tanks for supplying Locomotive Engines, Machine Shops, &c.

## **Geared Wind Engines for General Purposes.**

Are suitable for driving every description of Machinery, Mills, &c.

## **Geared Wind Engines for Electric Lighting.**

A Wind Engine and Dynamo connected to storage Batteries is the cheapest means of providing Electric Light in Country Districts.

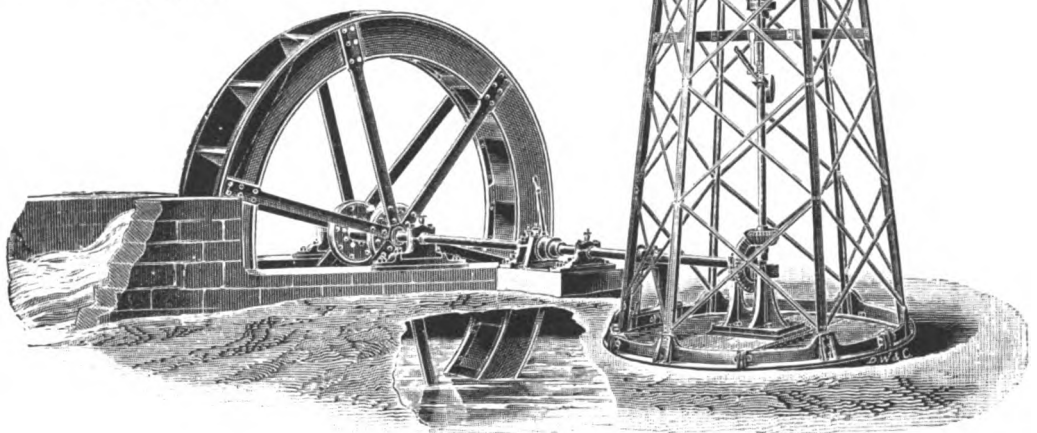
*Delivery—Carriage Paid to most Railway Stations,*

*And F.O.B. Liverpool or London.*

*Prices subject to alteration without notice.*

**SIMPLEX "GEARED"**  
**WIND ENGINE,**  
**WITH DASH WHEEL WATER LIFT.**  
**Specially adapted for irrigation and Drainage Purposes.**

This Illustration shows an arrangement for working an Improved Dash Wheel, which can be made of any size or power to raise any quantity of water required and may be most advantageously applied for many purposes of Irrigation, and also for Drainage of low-lying Lands.



**JOHN WALLIS TITT, Waterworks Engineer,**  
**WOODCOCK IRONWORKS, WARMINSTER, ENGLAND**

# F. E. CLOTTEN, 258, High Holborn, LONDON.

SEED GENUINE ONLY  
IF PACKED IN BAGS OR  
TINS SEALED WITH THIS



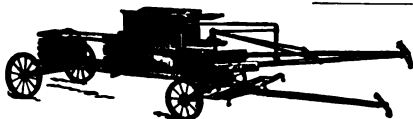
REGD. TRADE MARK.

Are you a  
**Landowner**  
anxious to  
Improve your **Estate**?  
If so, order at once for next  
Spring Sowing Seed of the

## NEW GREAT FODDER PLANT,

Improved cultivated  
**LATHYRUS SILVESTRIS**  
or everlasting Flat Pea.

For full details, reports of British growers, and genuine Seed, write direct to the original introducer,  
**F. E. CLOTTEN**, as above.



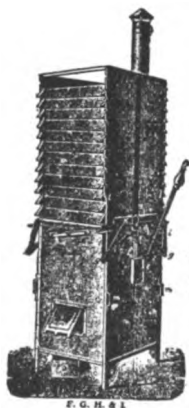
## PERPETUAL BALING PRESS.

The best for Baling Hay and Straw; doing the most  
and best work for the least money.

These Presses are made in Wooden Frame or Steel Case  
and for Horse and Steam working.

Prices from £55 to £105.

One Season's Baling saves in Space and Freight entire  
cost of Press.



## The "WAAS" Patent EVAPORATOR,

For Drying  
FRUIT and VEGETABLES.

Has beaten all competitors at every  
competitive trial and gained since  
1888 Twenty-three Gold Medals and  
Highest Awards.

## MILK TESTER.

DR. GERBER'S  
ACID-BUTYROMETER,  
The simplest, quickest, and most reliable.

MILK "STERILIZING" MACHINES.

This Lathyrus is invaluable for improving poor, old  
**Meadow land.**

For **Game Preserves**  
it has no equal, both as protection and feed for winged  
and ground game.

Once started it requires no more manure, and is the  
greatest labour-saving fodder crop.

For mode of cultivation, see last heading, under  
Farm Crops.

## GALVANIZED STEEL "AERMOTOR,"

THE BEST AND CHEAPEST POWER  
FOR PUMPING.

8 ft. dia. wheel	...	...	...	£12
Wind 12	"	"	...	£20
mill 16	"	"	...	£50

Pumps to match.

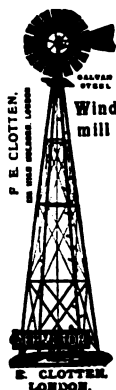
GEARED FOR DRIVING MACHINERY.

12 ft. dia. wheel (Geared)	...	...	...	£25
16	"	"	...	£50

STEEL FIXED TOWERS.

30 ft. high for 8 ft. "Aermotor"	...	...	...	£9
30	"	12 ft.	...	£15

Including Anchor Plates and Posts.



## AUTOMATIC "PEAT DUST" CLOSETS,

"TRIUMPH"  
Peat Dust  
SPRINKLER  
IN ACTION.



Much superior  
to Earth and Ash  
Closets.

Cheaper and Nicer.  
No Dirt. No Smell.  
No Liquid Pollution.  
Perfect Sanitation  
and  
Improved Agriculture.  
The best for  
Country Mansion and  
Cottage.

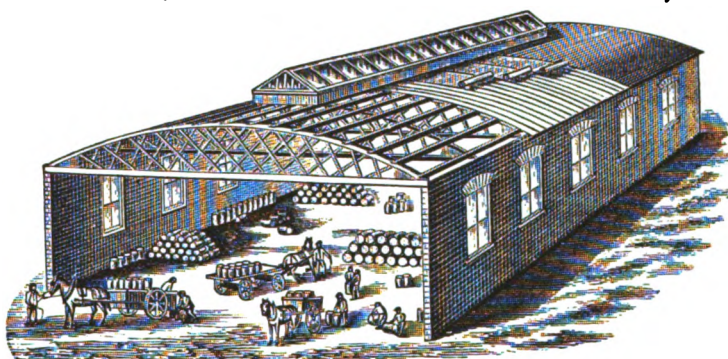
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# M'TEAR & CO., LIMITED,

Felt Factory, Sawing and Planing Mills,  
117, 119 & 121, CORPORATION STREET, BELFAST.



Circular Felt Roofs erected, without central supports, up to 100 feet span.

**ROOFING FELT.**—The best known Weather-resisting Material yet introduced for Roofing purposes.

**SARKING FELT.**—For putting under Slates.

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Timber prepared for all kinds of Building, Greenhouses, Conservatories, Melon Frames, &c.

Sheds and Out-Houses covered with our Wood and Felt Circular-roofs form the cheapest and most secure method of storing Crops.

Cheaper than Slates or Tiles, and more Durable than Iron, although only Half the Price.

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Estimates, Drawings, &c., by return of post, after receipt of measurements.

WRITE FOR PARTICULARS.

Samples, with full particulars, given on application to their several Offices:

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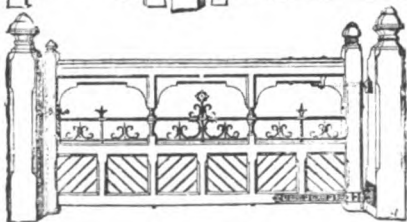
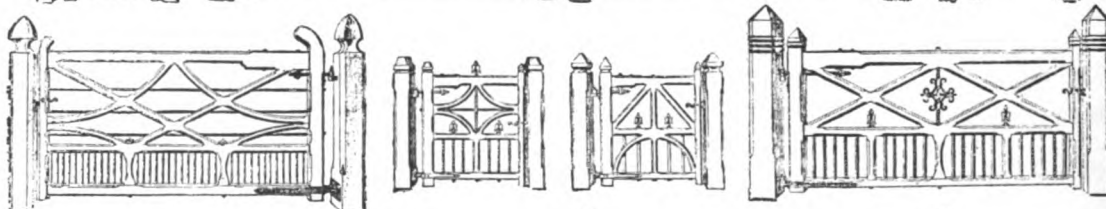
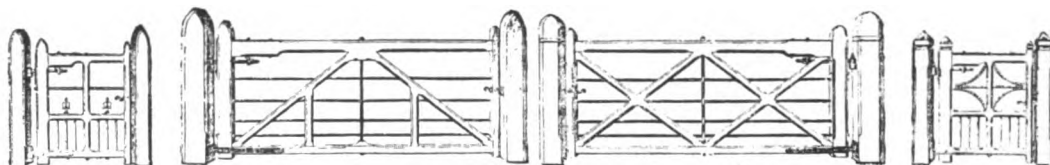
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Her Majesty the Queen  
The Prince of Wales andand Their Royal Highnesses  
Duke of Edinburgh.**G. F. BRAGGINS & CO.,**

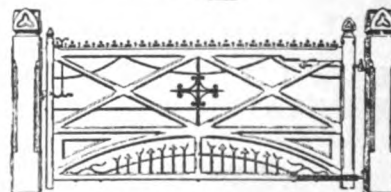
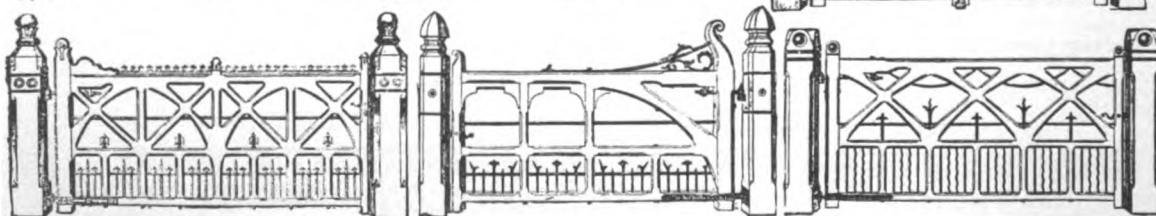
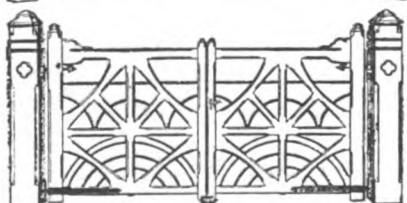
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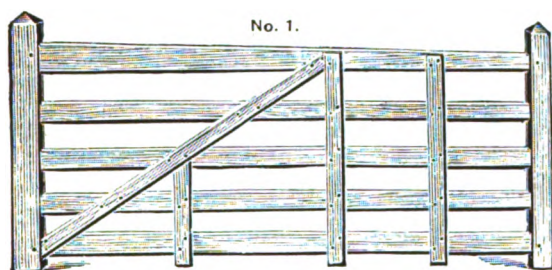
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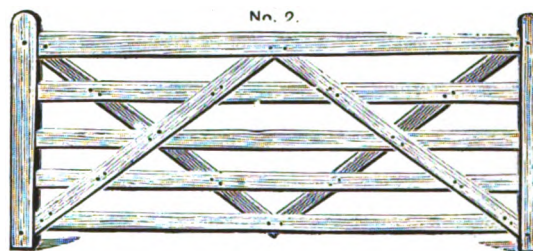
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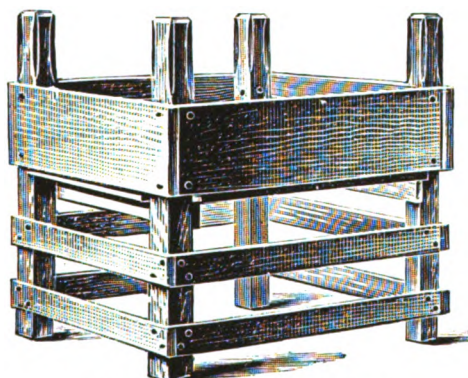
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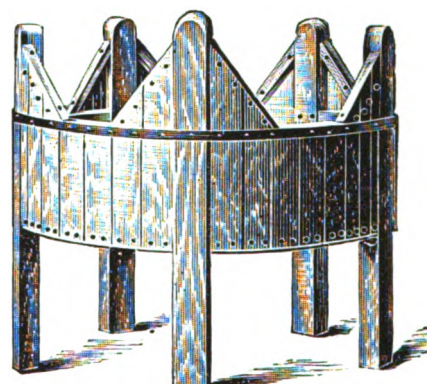
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4 ft. x 4 ft. . . . 19s. each.

SHEPHERDS'  
HOUSES,  
ENTRANCE  
GATES,  
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HURDLES, &c.

CREOSOTING  
Done to Order.



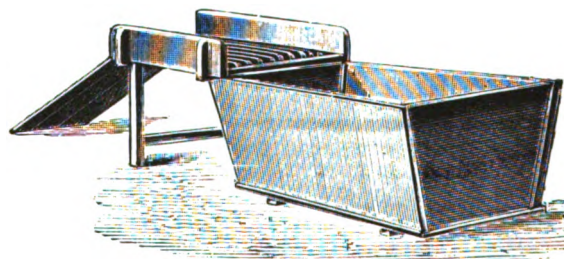
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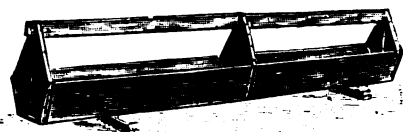
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AT THE  
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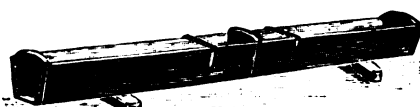


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10 ft. Long, 9 in. Sides, 7s. each.

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# RICHARD MALLON,

Timber Merchant, Cattle Grid and Gate Manufacturer,  
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## 60-PAGE ILLUSTRATED CATALOGUE AND PRICE LIST



6 ft. by 8 ft., £11 10/-, Carriage paid.  
If fitted with stove 25/- extra.



7 ft. by 5 ft. £4 10/-, Carriage paid.



10 for 60/-, Carriage paid, 10 for 65/-.

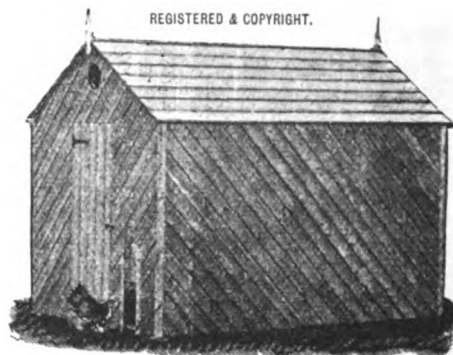
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and  
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FREE ON  
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QUALITY  
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12 ft. by 6 ft. £8 10/-, Carriage paid.



9 ft. by 6 ft. £2 15/-, Carriage paid.



£2 15/- per doz., Carriage paid.

# THE "ALEXANDRA" CREAM SEPARATORS.

For Horse, Steam, or other Power.



SIZES AND PRICES OF "ALEXANDRA" CREAM SEPARATORS.

SIZES—No.	1	2	3	4
Skimming Capacity per hour ... Imp. Gals.	300	200	100	55
Horse Power required ...	1.20	0.8	0.35	0.20
Revolutions of Cylinder per minute .....	6000	7000	7000	7500
Speed of Intermediate Motion per minute.....	950	950	950	750
<b>PRICES £</b>	<b>75</b>	<b>55</b>	<b>42 10</b>	<b>27 10</b>

PRICE includes Intermediate Motion, Inlet Funnel, Strainer and Float, Belt, Screwdriver, Spanner, Oilcan, Packing and Carriage.

For Hand Power.

No Heating  
Skim Milk  
for Calves  
required.

Highest  
Awards  
throughout  
the World in  
Competition.



SIZE.	EASY TO WORK.	PER HOUR.
No. 8	For a Lady.	25 galls. £16 16 0
No. 7.	„ Man.	50 „ £25 0 0

IF FITTED WITH FRICTION GEAR FOR BEING DRIVEN BY POWER, 35/- EXTRA.

By using these Separators you will make an increased Yield of Butter:

WITH	EXTRA PER WEEK.	£	s.	d.
4 COWS.	5 lbs. at 1/4 per lb.	..	6	8
8 „	10 „ „	..	13	4
12 „	15 „ „	..	1	0
16 „	20 „ „	..	1	6
20 „	25 „ „	..	1	13

BESIDES THIS,  
NEW WARM SKIM MILK FOR CALVES,  
AND IMMENSE SAVING OF LABOUR.

We shall be pleased to send you a Machine and convince you of this, if you will give us the opportunity.



## NEW PORTABLE Steam Boller.

INVALUABLE FOR  
Raising Steam,  
Boiling Water,  
Cooking Food,  
Warming Milk,  
Scalding Cans,  
Heating Buildings,  
&c., &c.

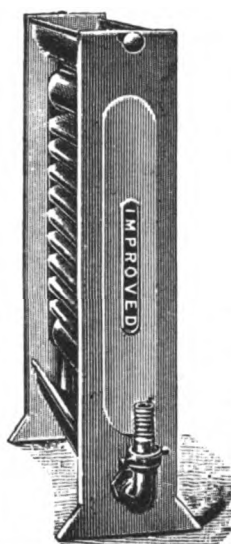
It is most Efficient  
and Economical.

A good head of Steam can be raised in from 10 to 15 Minutes.

### SIZES & PRICES

S1.	S2.	S3.	S4.
3 H.P.	1 H.P.	3 H.P.	2 1/2 H.P.
£12,	14,	17,	21.

Full Particulars will be sent on Application.



## REFRIGERATORS.

THE CHEAPEST AND BEST MADE.

Capacity per hour.	Depth.	Width.	by 19 1/2 in.
40 Gallons	14 in.	18 in.	20 in.
80 ditto	18 in.	22 1/2 in.	24 in.
125 ditto	22 1/2 in.	26 in.	28 in.
175 ditto	26 in.	32 in.	31 1/2 in.
235 ditto	32 in.	38 in.	34 in.
300 ditto	38 in.	44 in.	36 in.

Wood Stands, Wrought Iron Slays for 9 walls to carry Refrigerators Milk Vessels fitted with brass taps, for first four sizes Ditto for two larger sizes Galvanized Supply Cisterns, fitted with Stop Tap, 16/- and

R. A. LISTER & Co., Ltd., DURSLEY, Glos.



# WHAT THE USERS SAY

## OF THE "ALEXANDRA" SEPARATORS.

### BEDS.

Mr. B. MEAD, Manor Farm, Edlesboro, Dunstable, writes: "I am so pleased with the 'Alexandra' Cream Separator that I would rather give up dairying than be without it."

### BERKS.

Mr. W. L. ROSE, New Lodge Farm, Windsor, writes: "I have given your Separator a fair trial, and it gives me great satisfaction. By its use it saves a man's wages (15s.) every week. If any one wants further information I will give it."

### BUCKS.

Messrs. EDWARDS & COATES, The Creamery, Leighton Buzzard, write: In reply to your letter respecting the two 300-Gallon Separators you supplied us with, we are perfectly satisfied, and consider them far in advance of the De Laval machine."

Mrs. DAY, Caldecote, Bow, Buckhill, writes: "We are very pleased with the 'Alexandra' Cream Separator. It is easily worked. There is a great saving of time and trouble as compared with old system. The calves do well on the separated milk."

### CAMBS.

Mr. J. E. GROMITT, Wisbeach, writes: "I cannot but express satisfaction at the way the Separator has done its work. I hope to prove by its aid that five head of stock may be raised where three only were raised without it."

### CHESHIRE.

A Resident living at Fir Bank, Frodsham (not wishing his name to be given) says: "I like the Separator and it gives me every satisfaction. I shall be pleased to recommend and show the machine to any one."

### CORNWALL.

The CORNWALL COUNTY COUNCIL tests proved conclusively the superiority of the "Alexandra" over the Setting System (Jersey Creamer). More butter was made from a given quantity of milk and it fetched a bigger price. (Full particulars of these tests on application.)

### CUMBERLAND.

Mr. J. A. STEPHENSON, Dairy Lecturer to the Northumberland County Council, says: "The 'Alexandra' Cream Separator answers its purpose well. It is compact, and easily cleaned and managed. Its advantages are now so well understood it seems unnecessary to refer to them in detail."

### DERBY.

Mr. E. S. WILMOT-SITWELL, Horsley, Derby, writes: "Am very pleased with the Separator. It is simple, easily cleaned, and with 6 cows will pay for itself in two years."

### DEVON.

Messrs. J. STENNER & Co., Tiverton, write: "Your Separators are giving wonderful satisfaction. We like the machine because of its simple construction, ease of management, costing nothing for repairs, and the very little power required compared with other Separators."

### DORSET.

Mr. B. KENDALL, East Lulworth, Wareham, writes: "Your Separator is quite a success. My Butter fetches top price, and it is undoubtedly a great boon to people with a lot of milk to deal with and little accommodation for working it."

### GLO'STER.

Messrs. F. G. PHILLIPS & JOHN C. HUMPHRIES, Inst Farm, Pilning, Bristol, writes: "The following is the result of a trial with one of your No. 8 Separators ('Alexandra') against the Setting system at the above farm, under our strict supervision. We trust you will carefully consider this, as we are fully convinced the Separator only requires to become known to be adapted by every farmer."

#### Setting System :

157 Gallons, set in pans, skimmed by hand,  
cream churned, after three days yielded of  
Butter ... .. 56 lbs. 8 ozs.

#### Put through Separator :

157½ Gallons, cream churned, after three days  
yielded of butter ... .. 67 lbs.

The amount of Butter made by Setting system  
previous weeks was as follows :

August 1st to 8th	...	53 lbs.
" 8th " 15th	...	58 "
" 15th " 22nd	...	52½ "
" 22nd " 29th	...	56½ "
" 29th " 5th Sept. 67	...	made by Separator

### HANTS.

Mr. W. B. BRAY, Compton Farm, Petersfield, writes: "Very pleased to say my Separator is going on all right. The Calves do better on the Separated Milk and I would not be without the machine now."

### HEREFORD.

Mr. J. MADGE, Ledbury, writes: "I am writing to express my great satisfaction with the No. 8 Separator. I have made One-Third more Butter (33½ per cent. increase) with the same number of cows in this month, as compared with the same month in previous year."

### HERTS.

Mr. F. J. HUNT, Steeple Morden, Royston, writes: "Have used the 'Alexandra' Cream Separator 2 years, and my opinion is it is by far the simplest, easiest to clean and turn, and makes the most perfect separation. If I had 6 cows and no spare money, I would sell one cow and buy a machine."

### HUNTS.

Mr. R. MOULTON, Gaynes Hall, St. Neots: "It takes every particle of cream from the milk. I am positive that 8 cows with a Separator are almost equal to 10 cows without one!"

### KENT.

Mr. J. BROWN, 34, High Street, Tunbridge Wells, writes: "I have found the machine answer all my expectations in skimming power, thickness of cream, and general excellence."

**R. A. LISTER & Co., Ltd., DURSLEY, Glos.**

**LANCS.**

Mr. W. BOULTON, Croft House, Barrow-in-Furness, writes: "I am perfectly satisfied with the Separator. The Butter is increased 20 per cent., the Separated Milk is excellent for calves, and a great deal of trouble is saved as compared with the old system."

**LINCS.**

Mr. W. G. MARSHALL, Branston, Lincs., writes: "The Separator accomplishes all you stated. A Lad can easily turn it, and because of its ease of management and construction it is superior to other Separators that are more complicated in their working."

**MIDDLESEX.**

Messrs. WELFORD & SONS, Maida Vale London, W., write: "In our opinion the 'Alexandra' is the most advantageous Machine in the market. The Separator which we accepted for trial is giving full satisfaction, and were we requiring further separating power we should put down another 'Alexandra.'"

**MONMOUTH.**

Mr. M. PREWETT, Trelenny Farm, Chepstow, writes: "The Separator gives every satisfaction. A Girl can easily work it, and though it has been used twice a day it has not cost a penny for Repairs. There is a great saving in labour, and the Calves like the milk."

**NORFOLK.**

Mr. G. JONES, Stow Bridge, Downham Market, writes: "The increased yield of Butter is 10 lbs. per week, and the Calves take the Separated Milk freely and do well on it."

**NORTHANTS.**

Mr. T. S. AGUTTER, Islip Farm, Thrapstone, writes: "The Separator gives me entire satisfaction. My Butter is increased 20 per cent. The machine is easy to work and clean, and those that once give it a trial will never regret doing so."

**NORTHUMBERLAND.**

Mr. W. J. HOWAT, 103, Newgate Street, Newcastle-on-Tyne, writes: "I find the Machine exceedingly useful, and obtain a much larger percentage of Cream than by the old system."

**NOTTS.**

Mr. H. S. WALKER, Netherthorpe, Worksop, writes: "I am well satisfied with the Separator. The increased yield of cream is 15 to 20 per cent., and I consider the machine will pay for itself in the first 12 months, even with a small quantity of milk for separation."

**SALOP.**

Mr. J. M. DUGDALE writes: "The Separator is in every respect most satisfactory. It does its work quickly and thoroughly, it is easy to keep clean, and the calves thrive on the Separated Milk."

**SURREY.**

Mr. R. H. OTTER, Queenwood, Chertsey, writes: "I am well satisfied with the Separator. It works easily, and we have never had any trouble with it. It has cost nothing for Repairs. The Separated Milk is excellent for feeding purposes."

**SOMERSET.**

Mr. E. D. MARDEN, Western Counties Creamery Co., Marston Station, Somerset, writes: "After being so sceptical as to the merits of your Separator, I feel it only my duty to acknowledge that all my fears were groundless. I have great pleasure in bearing testimony to the many advantages of the 'Alexandra,' and to be as brief as possible will state:—That, as regards power I could drive it at my old place with 20 lbs. less steam than my other machine, and mark this, separate nearly double the quantity of milk per hour. You will remember mine is a No. 2 'Alexandra,' and now we have put it up here and when only working your machine can very well drive it with 20 lbs. of steam. It takes the least power of any machine I have ever seen and seems to run as smoothly as possible, with scarcely any noise. The cream seems very uniform in quality, and I think it a great advantage in being able to move it as soon as we have finished working. All the drops of milk can thus be washed away, and you get no bad smells around the machine. My man is also highly pleased with the ease in washing, and altogether I think you have just cause to be proud of the 'Alexandra.' I wish you every success, and am sending this to Doncaster, in order that you may show it to anyone who may chance to be so much of a 'Thomas' as myself."

**SUSSEX.**

Mrs. C. SULLY, Claremont Villas, Uckfield, writes: "I am still so delighted with your Separator. It reduces Butter-making to a 'joy.'"

**WESTMORELAND.**

Mr. F. PUNCHARD, Kirkby Lonsdale, writes: "The 'Alexandra' Cream Separator has given much satisfaction. It is easy to keep clean and in order. Its wearing parts are fewer than in other Separators, and the Separated Milk is not so agitated as with other makes."

**WARWICK.**

Mr. T. WATSON, Coleshill, Warwick, writes: "The increased yield of Butter now I use your Separator is 20 to 25 per cent. A strong boy works the machine. One half the trouble and expense under the old system is saved, and it is the Best Separator I know."

**WILTS.**

Mr. G. EYERS, Cadley Farm, Potterne, Devizes, Wilts., writes: "I am highly pleased with the No. 7 Separator. I have used it daily since June last without a single 'hitch.' The Butter gives the greatest satisfaction, and I would not be without it on any consideration."

**WORCESTER.**

Mr. O. J. L. BIRD, Manager Worcester County Council Dairy School, writes: "The No. 8 Separator worked like a charm, and you will be selling several in this district before long."

**YORKS.**

LIEUT.-COL. STEBLE, Belmont Road, Scarborough, writes: "I am very pleased with the 'Alexandra' Separator. It gives an increased yield of Butter, and the skim milk is ready for the calves. It is easy to clean, and my people prefer it to any other."

**SCOTLAND.**

Mr. J. DAVIDSON, Overseer to Earl of Aberdeen, Haddo House, Aberdeen, writes: "The Separator is in every way giving the utmost satisfaction."

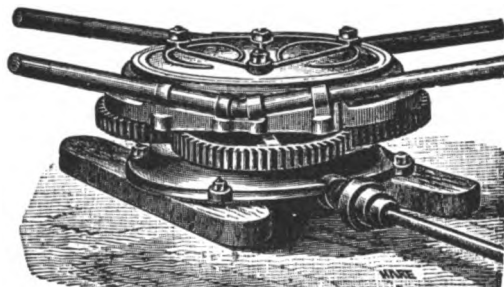
**R. A. LISTER & Co., Ltd., DURSLEY, Glos.**



## Patent 'Triplex' HORSE GEAR.

No Intermediate Motion required.

Will drive at any speed.



No. 1 for one horse. Speed of lay shaft 64 revolutions to one of horse, fitted with leading rod and bodkin .. .. £10 10 0

No. 1 S for one horse. Speed of lay shaft 40 revolutions to one of horse, in all respects except the speed similar to above .. .. £10 10 0

No. 1 SS for one horse. Speed of lay shaft 22 revolutions to one of horse, in all respects except the speed similar to above .. .. £10 10 0

The above can be fitted for two light horses if necessary for 20s. extra.

Cast Iron Pulley Frames with two bearings for the above 10s. extra.

No. 2 fitted for two strong horses, with bodkins, leading rods, &c., complete. Speed of the lay shaft 64 revolutions to one of the horse £13 5 0

No. 2 S exactly similar to the above, except that it is arranged for a slower speed, viz., 40 revolutions to one of the horse .. .. £13 5 0

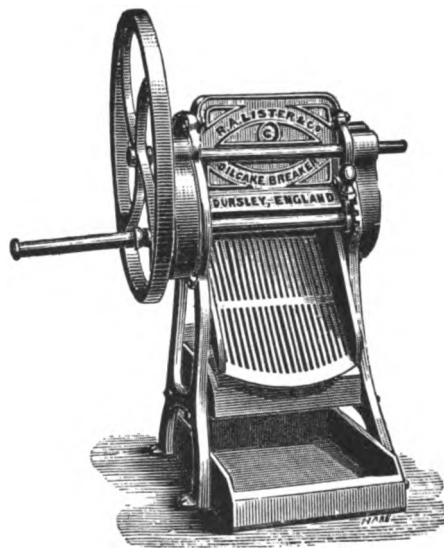
Cast Iron Pulley Frames for Nos. 2 & 2 S sizes, with 2 bearings 12/6 extra.

If No. 2 and 2 S sizes are fitted for one horse only, 25s. less.

Packing in strong Case for Export, any size, 10s.

**Three Times as strong as any other Gear of the same weight.**

## IMPROVED OIL CAKE BREAKERS



These machines are easily adjusted to break six different sizes of Cake, have a screen to take out the dust, and two boxes to receive the whole of the Cake as it leaves the Mill.

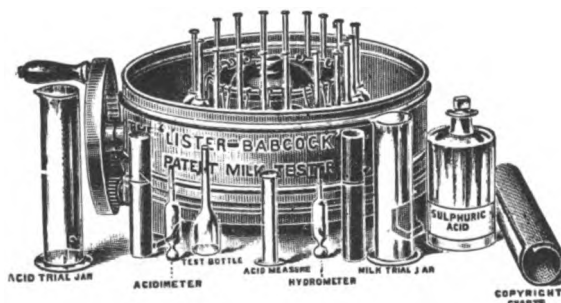
### SIZES AND PRICES.

A—12 inches wide in mouth	...	£2 15 0
B—14 " "	...	3 3 0
C—16 " "	...	3 10 0

## THE 'LISTER-BABCOCK' MILK TESTER.

**Awarded Silver Medal (Highest Award) at London Dairy Show, 1892, after a severe test.**

*Used by the British Dairy Farmers' Association, English Jersey Society, and other Public Bodies for testing purposes.*



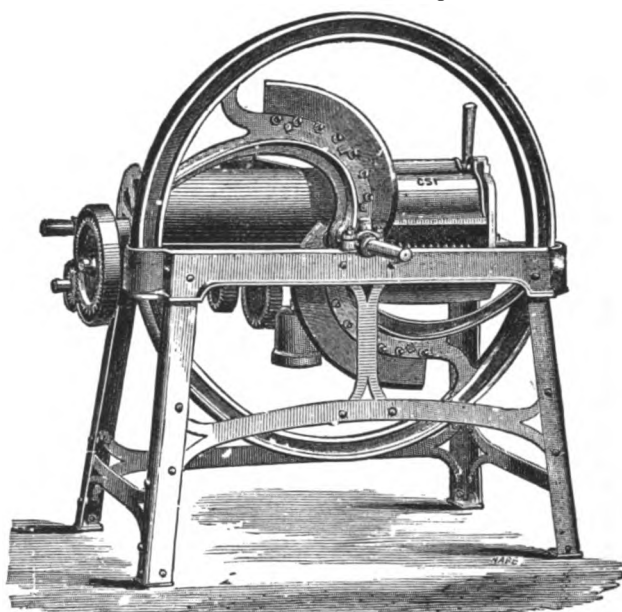
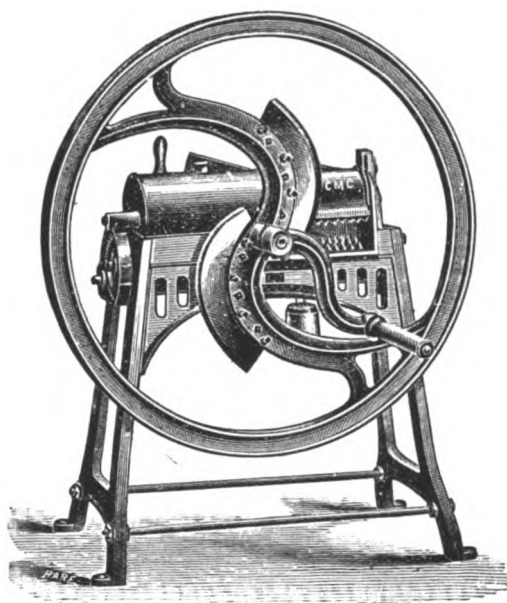
### SIZES AND PRICES.

4 Bottle Tester	...	£3 5 0	16 Bottle Tester	...	£5 0 0	32 Bottle Power Machine	£7 10 0
6 " "	...	3 10 0	20 " "	...	5 15 0	40 " "	8 10 0
8 " "	...	3 15 0	32 " "	...	6 5 0	60 " "	10 0 0
10 " "	...	4 0 0					

**Any Person can carry out Accurate Tests with this Tester, no scientific knowledge being required. This we Guarantee.**

**R. A. LISTER & Co., Ltd., DURSLEY, Glos.**



**CHAFF CUTTERS.****FOR HAND, HORSE, WATER, OR STEAM POWER.**

MARKS.	Wide	Cuts Lengths.	PRICES.	No. of Knives.	Speed recommended per minute by Steam Power.	$\frac{1}{2}$ -in. Chaff cut at 60 revolutions per minute by hand per hour, other lengths in proportion.	$\frac{1}{2}$ -in. Chaff cut per hour by horse power, other lengths in proportion.	$\frac{1}{2}$ -in. Chaff cut per hour by steam power, other lengths in proportion.
	Inches.		l. s. d.			Bushels.	Cwt.	Cwt.
O O with fixed mouth	7 $\frac{1}{2}$	1	2 2 0	2	..	14	..	..
O with rising mouth	7 $\frac{1}{2}$	2	2 10 0	2	..	16	..	..
W X D " "	8 $\frac{1}{2}$	2	2 15 0	2	..	20	..	..
W X E " "	8 $\frac{1}{2}$	2	3 0 0	2	..	20	..	..
W X C " "	8 $\frac{1}{2}$	2	3 8 0	2	..	20	..	..
W S C " "	8 $\frac{1}{2}$	2	3 10 6	2	..	20	..	..
A " "	8 $\frac{1}{2}$	2	4 0 0	2	..	20	..	..
W M C " "	8 $\frac{1}{2}$	2	4 2 6	2	..	23	..	..
W D T " "	9 $\frac{1}{2}$	2	4 6 0	2	..	23	..	..
W E B " "	9 $\frac{1}{2}$	2	5 0 0	2	..	25	..	..
W D D " "	9 $\frac{1}{2}$	3	5 7 6	2	..	30	..	..
W E D " "	9 $\frac{1}{2}$	3	5 18 0	2	..	30	..	..
W S D " "	10	3	6 12 0	2	150	35	6	..
W E E " "	9 $\frac{1}{2}$	3	7 2 0	2	150	30	6	..
W S E " "	10	3	7 15 0	2	150	30	6	..
W S H " "	10	3	8 18 6	3	200	35	9	11
W E I " "	11 $\frac{1}{2}$	3	9 10 0	3	200	..	..	14
W D K " "	11 $\frac{1}{2}$	3	10 5 0	2	200	..	..	18
W E K " "	11 $\frac{1}{2}$	3	10 15 0	3	200	..	..	18
W S I " "	12	3	10 7 6	2	200	..	10	16
W S K " "	12	3	11 12 6	3	200	..	..	20
W D S " "	13 $\frac{1}{2}$	3	12 7 6	3	200	..	12	18
W D P " "	13 $\frac{1}{2}$	3	13 13 0	3	200	..	..	24
W E R " "	15 $\frac{1}{2}$	3	15 12 0	3	250	..	..	30

Feeding Webs fitted to all Machines from W E E to W E K, 20/- extra. For all larger sizes 30/- extra.  
Lengths can be altered by substituting other change wheels. All Machines from W E E fitted with Stop & Reverse Motions.

**R. A. LISTER & Co., Ltd., DURSLEY, Glos.**

**NO STABLE  
Should be without  
THE  
'BEAUFORT HUNT'  
CORN CRUSHER.**

## THE 'BEAUFORT' HUNT CORN CRUSHERS

Fitted with Two STEEL ROLLERS, give the  
Greatest Satisfaction.

**NEARLY ONE THOUSAND HAVE BEEN  
SOLD TO H.M. MOUNTED FORCES,**  
After Severe Trials: a fact which speaks for  
itself.

**Size N.X.**—For Crushing Oats, as well as splitting Beans, Peas, Maize, &c. . . . . **52/6**

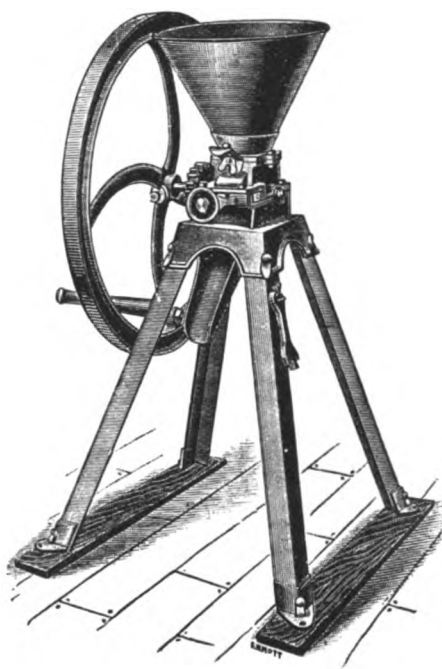
This Corn Crusher is our "specialité," and is undoubtedly the Best and Cheapest made, it being fitted with Two Steel Rollers, Steel Hopper and Spout, Adjustable Feed, and mounted on Wrought Angle Iron Legs. Easily Worked by a Boy.

**Size L.X.**—Exactly similar to above, only larger and stronger, to render it suitable for Two Men or Power . . . . . **95/-**

**Size X.L.**—For Splitting Beans, Peas, Maize, &c. Fitted with One Steel Roller and Hardened Plate, Adjustable Feed, Steel Hopper and Spout, and Angle Iron Legs . . . . . **42/-**

**NOTE.**—N.X. can be fitted with an extra handle for **3/6**.  
X.L. can be fitted with Longer Steel Shaft and an extra handle for **5/-**.

N.X. will crack "a feed" of Oa's in One Minute  
or can be set to simply split Beans or Maize.



**NOTICE.**—The "Beaufort Hunt Mills are not suitable for grinding grain into meal: simply to assist digestion, enable the corn to mix better with chaff, preventing it passing through the animals unmasticated, assisting young horses and those that are shelling their teeth, and old ones to properly masticate their corn. The Mills can be adjusted to crack corn without making meal. For **general purposes** we recommend the **Double Roller Mills, N.X. or L.X. and not the X.L.**

**CARRIAGE PAID TO ANY RAILWAY STATION IN ENGLAND.**

**R. A. LISTER & Co., Ltd., DURSLEY, Glos.**



## LISTER'S SELF-ACTING OAT CLEANER.

**H**ORSES eat one bushel of dust in every 25 bushels of Oats. All this is removed without any labour whatever. The Oats are put in the Cleaner in the loft above the stable, and as they descend over the series of screens placed zig-zag all the dust and impurities are collected in a box at the base.

No room is taken up, they simply occupying the place of the old corn spout. They are absolutely necessary to the good health of horses, preserving their wind, and preventing other disorders arising from impaired digestion.

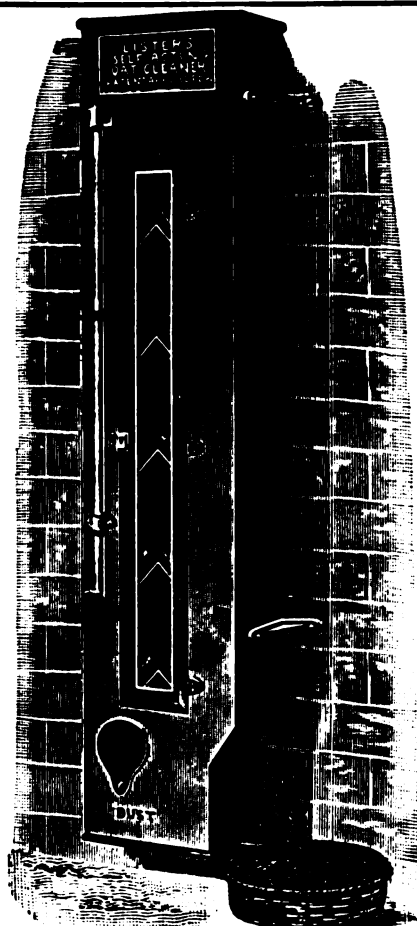
### MADE IN TWO SIZES.

**No. 1.** 7 feet long x 17" x 12", suitable for large stables. Capacity 1 bushel per minute **£5 5 0**

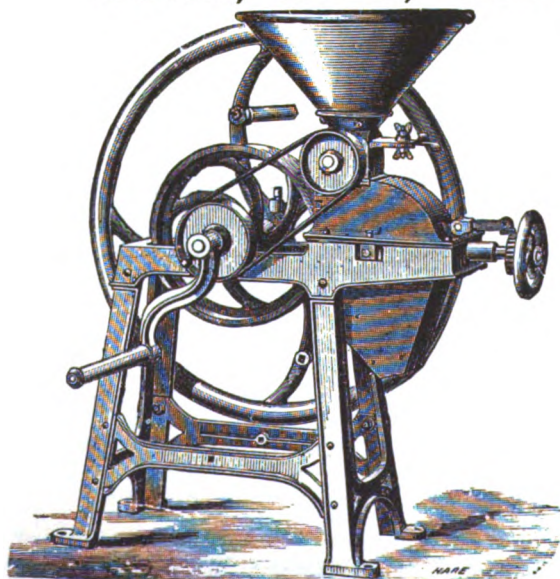
**No. 2.** 6 feet long x 12" x 9½". Capacity half a bushel per minute .. .. **£4 4 0**

Sent on Trial to any Horse-keeper.

R. A. LISTER & Co., Ltd., Dursley, Glos.



## CORN, SEED, AND MALT CRUSHERS.



MARK.	PRICE.	1	2	3
	4 s. 6 d.	bush.	bush.	bush.
R S E	5 5 0	3 to 6	...	...
R S E & Kibbler	6 16 6	3 to 6	...	...
R S A	6 6 0	4 to 7	...	...
R S A & Kibbler	7 17 6	4 to 7	...	...
R S D	7 2 0	4 to 7	12	...
R S D & Kibbler	8 13 6	4 to 7	12	...
R S B	8 15 0	...	20	30 to 40
R S B & Kibbler	10 17 6	...	20	30 to 40
R S K	9 2 6	...	20	30 to 40
R S K & Kibbler	11 5 0	...	20	30 to 40
R S C	13 5 0	...	...	40 to 60
R S C & Kibbler	15 8 0	...	...	40 to 60
R S L	13 15 0	...	...	40 to 60
R S L & Kibbler	15 18 0	...	...	40 to 60

Column No. 1 denotes the quantity of Oats the Machine is capable of crushing per hour by hand. All sizes to R S K fitted with handles.

Column No. 2 denotes the quantity of Oats the Machine is capable of crushing per hour by horse.

Column No. 3 denotes the quantity of Oats the Machine is capable of crushing per hour by steam.

**SPEED.**—For Steam Power 200 revolutions per min.  
For Horse Power 120 " "

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1867.

# Agricultural and Horticultural Association, LIMITED,

CREEK ROAD, DEPTFORD, S.E., 3, AGAR STREET, STRAND, W.C.

AND

DYOTT HOUSE, NEW OXFORD STREET, W.C.

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## OBJECTS OF THE ASSOCIATION.

To supply Pure Feeding Stuffs, Guaranteed Artificial Manures, Reliable Farm and Garden Seeds, Grain, Household and Steam Coals; also Agricultural Implements, Machinery, Fencing and Farm requisites generally.

## TERMS OF MEMBERSHIP.

*An Investment of £1 in a limited Share. A Subscription of 5s. per annum.*

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# "ONE & ALL" RELIABLE FARM SEEDS.

## "ONE & ALL," RELIABLE PERMANENT GRASSES AND CLOVERS.

### Natural Grasses.

	Guaranteed Germination per cent.
<i>Alopecurus pratensis</i> (Meadow Foxtail) ..	75-80
<i>Agrostis Stolonifera</i> (Florin) ..	95
<i>Anthoxanthum odoratum</i> (Sweet Vernal) ..	65
<i>Avena flavescens</i> (Yellow Oat Grass) ..	—
<i>Cynosurus cristatus</i> (Crested Dogtail) ..	90
<i>Dactylis glomerata</i> (Cocksfoot) ..	95
<i>Festuca pratensis</i> (Meadow Fescue) ..	96
<i>Festuca elatior</i> (Tall Fescue) ..	90
<i>Festuca duriuscula</i> (Hard Fescue) ..	85
<i>Festuca ovina</i> (Tall Sheep's Fescue) ..	—
<i>Festuca tenuifolia</i> (True Fine-leaved Sheep's Fescue) ..	—
<i>Festuca rubra</i> (Reddish Fescue) ..	—
<i>Poa trivialis</i> (Rough-stalked Meadow Grass) ..	90
<i>Poa nemoralis</i> (Wood Meadow Grass) ..	—
<i>Poa pratensis</i> (Smooth-stalked Meadow Grass) ..	—
<i>Phleum pratense</i> (Timothy or Cat-tail) ..	98
<i>Achillea millefolium</i> (Yarrow) ..	80

### CLOVERS.

Red or Broad, finest quality ..	96
Cow Grass or English Perennial Red Clover, finest quality ..	96
"One & All" Giant Cow Grass, finest quality ..	96
Giant Hybrid Cow Clover, finest quality ..	95
Alsike or Hybrid finest quality ..	96
White or Dutch, finest quality ..	96
Giant Perennial White, finest quality ..	96
Yellow Trefoil or Hop Clover, finest quality ..	96

### RYE GRASSES.

Finest Imported Italian Rye Grass, extra cleaned	90
Selected Perennial Rye Grass ( <i>Lolium perenne</i> ) heavy seed ..	90
Perennial Evergreen Rye Grass (or Devon eaver)	90
Pacey's Perennial Rye Grass, extra fine ..	90
Annual or Common Rye Grass, extra cleaned ( <i>Lolium annua</i> ) ..	80

## MANGEL WURZEL.

Champion, Yellow Globe ..	..	..
"One & All" Giant Yellow Globe ..	..	..
"One & All" Selected Golden Tankard ..	..	..
Golden Tankard (ordinary) ..	..	..
Cornish Short-top Yellow Globe ..	..	..
"One & All" Yellow Oval or Intermediate ..	..	..
"One & All" Selected Orange Globe ..	..	..
Mammoth Long Red ..	..	..
"One & All" Giant Long Red ..	..	..

## SWEDISH TURNIPS.

"One & All" Purple-top, improved large	..	..
Corner's Taunton ..	..	..
Lord Derby Bronze-top ..	..	..
White Swede, true Gloucestershire stock	..	..
Golden Melon, Green-top ..	..	..
Laing's Purple-top, or Garden Swede ..	..	..
"One & All" Purple-top Globe (new) ..	..	..
Champion ..	..	..
Bangholm ..	..	..
King of the Swedes ..	..	..
East Lothian Purple-top, fine stock ..	..	..

## WHITE TURNIP.

"One & All" Mammoth Purple-top ..	..	..
Pomeranian White Globe ..	..	..
Early White Field Stone or Six Weeks ..	..	..
"One & All" Imperial Green Globe ..	..	..
"One & All" Devonshire Grey Stone or Mottled Globe ..	..	..
Tankard Green ..	..	..
" Red ..	..	..
" White ..	..	..

## YELLOW TURNIP.

Old Meldrum Green-top Yellow Aberdeen ..	..	..
Green-top Scotch ..	..	..
Purple-top Yellow Aberdeen ..	..	..
Orange Jelly ..	..	..
"One & All" Early Green-top Yellow (field) ..	..	..

Priced Catalogue, "Farm Seeds" 1894, Post free on Application.

Agricultural & Horticultural Association, Ltd., 3, Agar St., Strand, W.C. & Deptford, S.E.

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1867

# "ONE & ALL" COMPLETE ARTIFICIAL MANURES,

SOLD TO GUARANTEED ANALYSIS.

**Carriage Paid, and New Bags included in Price.**

## Complete Manures for Wheat.

	Price Per Acre. £ s. d.
Light first dressing for Wheat on sandy or medium land .. .. .	0 12 6
Medium .. .. .	0 18 9
Full .. .. .	1 5 0
Heavy .. .. .	1 11 3
Light first dressing for Wheat on clay land .. .. .	0 12 3
Medium .. .. .	0 18 4½
Full .. .. .	1 4 6
Heavy .. .. .	1 10 7½
Light second dressing for Wheat .. .. .	0 14 9
Medium .. .. .	1 2 1½
Full .. .. .	1 9 6
Heavy .. .. .	1 16 10½

The prices include manure, gypsum and salt.

## Complete Manures for Barley.

Medium first dressing for Barley .. .. .	0 18 9
Full .. .. .	1 5 0
Medium second dressing for Barley .. .. .	0 14 9
Full .. .. .	1 2 1½

The prices include manure, gypsum and salt.

## Complete Manures for Oats.

Medium dressing for Oats .. .. .	0 18 4½
Full .. .. .	1 4 6
Medium second dressing for Oats .. .. .	0 14 9
Full .. .. .	1 2 1½

## For Grasses and Clover with a Crop.

Medium dressing on good land .. .. .	1 6 8½
Full dressing on poor land .. .. .	1 13 3

## For Permanent Pasture.

Light dressing for light pasture land .. .. .	1 4 6
Medium .. .. .	1 10 1½
Full .. .. .	1 17 9
Heavy .. .. .	2 9 0
Light dressing for heavy pasture land .. .. .	1 4 7½
Medium .. .. .	1 11 6
Full .. .. .	2 5 3
Light dressing for medium pasture land .. .. .	1 0 6
Medium .. .. .	1 6 0
Full .. .. .	1 17 0

The prices include manure, gypsum and salt.

## For Rye Grasses and Clovers.

	Price Per Acre. £ s. d.
Medium dressing on good land .. .. .	1 9 2½
Full dressing on poor land .. .. .	1 18 3

## For Italian Rye Grass.

Dressings of 1 cwt. each. No. 20 .. .. .	0 11 10½
--	----------

## For Mangel Wurzel.

Medium dressing for light land after dung .. .. .	1 18 3
Full .. .. .	2 9 0
Medium dressing for heavy land after dung .. .. .	1 10 10
Full .. .. .	2 3 3
Medium dressing for loam land after dung .. .. .	1 12 3
Full .. .. .	2 1 0
Medium dressing for light land without dung .. .. .	4 3 6
Full .. .. .	5 9 4
Medium dressing for heavy land without dung .. .. .	3 14 3
Full .. .. .	4 17 0

The prices include manure, gypsum and salt.

## For Cabbage or Kale.

Medium dressing after dung .. .. .	2 0 3
Full .. .. .	3 1 9
Second medium dressing without farm dung .. .. .	1 15 0
full .. .. .	2 10 6

The prices include manure, gypsum and salt.

## For Turnips or Swedes.

Medium dressing on light land for Turnips after dung .. .. .	1 16 3
Full .. .. .	2 7 0
Medium dressing on heavy land for Turnips after dung .. .. .	1 6 6
Full .. .. .	1 18 9
Medium dressing on good loam for Turnips after dung .. .. .	1 9 9
Full .. .. .	1 19 0

The prices include manure, gypsum and salt.

Light first dressing for Turnips as substitute for dung .. .. .	2 1 3
Medium .. .. .	2 9 6
Full .. .. .	2 17 9
Heavy .. .. .	4 2 6

Full Particulars of all Manures, with details of guarantee in each case, are given in the Association's pamphlet "Artificial Manures," 1894, post free on application.

**Agricultural & Horticultural Association, Ltd., 3, Agar St., Strand, W.C. & Deptford, S.E.**

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# "ONE & ALL" SPECIAL OIL-CAKES.

Made of the very best materials, of the highest nutritive value, and in true scientific proportions, to produce the best results for the cost incurred.



Stocks held at  
LONDON, LIVERPOOL, HULL,  
BRISTOL, PLYMOUTH,  
SOUTHAMPTON,  
and Principal Ports in  
IRELAND.



## PRICES.

<b>No. 1 DAIRY CAKE</b> , for milk production and milk enrichment	<b>£8 12 6</b> per ton.
<b>No. 2 FEEDING CAKE</b> , for young Stock in the second stage of growth, and for summer feed on poor grass ... ..	<b>7 15 0</b> „
<b>No. 3 FATTING CAKE</b> , for rapid fattening and for finishing off stock. A little may be advantageously added to other food to restore lost condition ... ..	<b>8 17 6</b> „
<b>No. 4 STORE CAKE</b> , for youngest Stock and for summer feed on good grass ... ..	<b>6 17 6</b> „

The above can all be delivered promptly as ordered. They are the cheapest Oil-Cakes in the market, and the value of the manurial residues is higher than in any other available Cakes.

The "One & All" Cakes are supplied broken to nuts or ground to meal at an extra charge of 1s. per ton. Bags lent free of charge where the conveyance by water or rails renders it desirable to send the Cakes in bags.

AGRICULTURAL & HORTICULTURAL ASSOCIATION, LIMITED,  
CREEK ROAD, DEPTFORD, S.E., and  
3, AGAR STREET, STRAND, W.C.

*Edw. Owen Lewis*  
Managing Director.



USED BY SPECIAL WARRANTS ON THE  
ROYAL FARMS AT WINDSOR,  
OSBORNE, AND SANDRINGHAM.



# DAY, SON, & HEWITT'S

## NEVER FAILING ANIMAL MEDICINES.

### THE CHEMICAL EXTRACT,

For mollifying and assuaging pain arising from all external and deep-seated wounds, such as Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen and Inflamed Udders and Sore Teats. Admirably adapted for Rheumatism, Sore Throats, &c.

Price 2/6, 3/6, and 7/- per Bottle.

POST FREE,

1/9 per Bottle.



Per BOX,

20/- per Dozen.

### THE GREATEST ANIMAL RESTORATIVE OF THE AGE.

Acts like magic for Fret, Colic or Gripes in Horses, and instantly relieves Hoven or Blown Cattle and Sheep. For Scour or Diarrhoea, Debility and Loss of Appetite in Horses, Cattle, Sheep, and Pigs, also for Colds, Chills, and Shivering Fits in Stock generally.

### THE RED DRENCH,

The pure and celebrated Evacuant Remedy for all Inflammatory Disorders among Cattle, Calves, Sheep, and Lambs, for Colds, Indigestion, Costiveness, Yellows, Surfeits, Fevers, Pleurisy, Loss of Cud, Hidebound, Red Water, &c. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of Calving or Lambing, rendering the milk copious, pure, and wholesome for their offspring. A safe preventive of Milk Fever.

Price 13/- per Dozen Box. (Cows). 10/6 per 3 Dozen Box. (Sheep).

Contains every  
Medicine requisite  
for Farm use.



Full Instructions  
given with each  
Preparation.

Complete, with "Key to Farriery," prices £1 8s. 9d., £2 16s. 6d., £4 1s., and £6 6s.

The "Original" Horsekeepers' Medicine Chests, £5 5s., £2 17s. 6d., and £1 10s.

REFUSE IMITATIONS.

Royal Animal Medicine Manufactory,  
**22, DORSET ST., LONDON, W.**

ESTABLISHED OVER 60 YEARS.

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1840.**DAY & SONS, ANIMAL MEDICINE SPECIALISTS, CREWE.**ESTABLISHED  
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NOTE OUR NAME AND INSIST ON OUR MEDICINES.

LARGEST SALE IN THE WORLD.

SHAKE THE BOTTLE WELL BEFORE USING

**DAY & SONS' BLACK DRINK**

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DIRECTIONS FOR USE

**FIT FOR ANYTHING**

Cures like a charm **COLIC** in Horses and Cattle.  
Cures **LACK OF VITALITY, OFF APPETITE** and **FATIGUE**.  
Cures **DEBILITY, COUGHS, CHILLS** and **LOW CONDITION**.  
Instantly relieves **BLOWN CATTLE** and **SHEEP**.  
Cures **COLDS** and **WEAKNESS** in all Young Stock.  
Price 1s. 8d. per Sample Bottle, or 19s. per doz. in boxes. Carriage Paid.

ADDRESS ONLY  
**DAY & SONS, CREWE, CHESHIRE.**

"It is not likely the Black Drink will fail."—Professor SHELTON.

"Equal to an insurance fee to the stock-keeper."—*Agricultural Gazette*.

"This firm's medicines no stock-keeper should be without."—*Country Gentleman*.

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**THE "RED DRINK."**

Cures Bad Cleansing after Calving, Prevents Milk Fever and Inflammation, and purifies the Milk. Cures Colic, Heaviness, Costiveness, Red Water, Yellows, Indigestion, Off Appetite, &c., in Cattle.

Price 12s. per Dozen Packets, Carriage Paid.

The "EWE DRENCH" acts as above for Sheep. 8/6 per Dozen.

**THE "PURIFIED DRIFFIELD OILS."**

For healing all Wounds, Bruises, &c., in Horses and Cattle. Sore Tests and Swollen Udders in Cows, and anointing in difficult Lambing and Calving, immediately stopping Straining and preventing Inflammation.

Price 2s. 6d. and 6s. per Bottle, Carriage Paid.

**THE "WHITE OILS."**

The Safe Embrocation for Strains or Sprains, Swellings and Bruises, Stiffness or Weakness in the Joints, &c., in Horses and Cattle.

Price 2s. 6d. and 6s. per Bottle, Carriage Paid.

**THE "SPECIAL HORSE POWDER."**

THE GREAT ANTIDOTE FOR INFLUENZA.—Cures Severe Colds, Coughs, Influenza, Liver, Stomach and Blood Derangements, Inflammatory Symptoms and Fever.

Price 8s. per Dozen (in Packets), Carriage Paid.

**THE "SPECIAL WORM POWDER" for Horses and Colts.**

Price 6s. per Dozen; Four Dozen, 20s.; Carriage Paid.

**THE "HUSKOLEIN"**

Cures Haak, Horse, Host or Haak, in Heifers, Calves, Sheep and Lambs, and Tapeworm in Lambs, &c.

Price 20s. per Dozen Bottles.

AND OTHER MEDICINES, SEE ILLUSTRATED PROSPECTUS (POST FREE).

**The "Original" Universal Medicine Chest.**

For Disorders of HORSES, CATTLE and SHEEP.

Price, complete with Guide, "Everyday Farriery," £2 4s., £5 and £10 10s. Sample Chest, £1 4s. Carriage Paid.

**THE "CHLORAL OPIATE."**

As a soothe of pain in cases of violent Colic or Spasms, and Inflammation of the Bowels, and in Heaving, Fainting or Straining after Parturition, in Mares, Cows and Ewes; also after a bad time of Lambing and Calving this Medicine is a sovereign remedy.

Price 3s. 6d. per Bottle, Carriage Paid.

**THE "ETHERIC AMMONIA."**

A Fever Draught for Horses, and a medicine for Garget, Chills, Colds, Shivering Fits, Coughs, Influenza, Sore Throat, Bronchitis, Asthma, Inflammation of the Lungs or Pneumonia, Severe Depression, Suppression of Urination, and Fever in Horses, Cattle and Sheep.

Price 2s. per Bottle, Carriage Paid.

**"ROZZINOL."**

For Scour or Diarrhoea in Calves, Lambs, Foals, and all animals.

12s. per Quart; 22s. per 1/2-Gal.; 40s. per Gal., Carriage Paid.

**THE "EQUINE BLISTER." Price 2s. 6d. per Pot.****THE "HOGWORT."**

Unrivalled for Feverish or Inflammatory Disorders, Coughs, Costiveness, Ill-condition, &c., in Pigs.

Price 3s. 6d. per Dozen Packets.

**THE "ZYNOLIX."**

Cures Ringworm, Eczema, Mange, and all Skin Diseases in Horses, Cattle, Sheep and Dogs.

Price 2s. 6d. per Bottle, Carriage Paid.

**"EVERYDAY FARRIERY" (18th Edition).**

A very successful work, by ourselves, on the Diseases of Stock, their Symptoms and Treatment.

Price 1s. 6d. per Copy; 1s. 9d. per post.

**The "Original" Horsekeepers' Medicine Chest.**

Arranged specially for Disorders in HORSES.

Price, complete with Guide, "Everyday Farriery," £2 14s., £5 and £10 10s. Sample Chest, £1 4s. Carriage Paid.

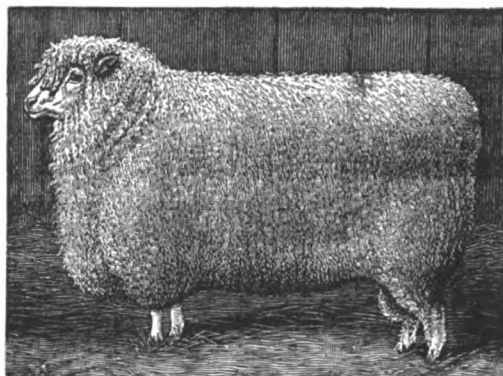
Only  
Address.

**DAY & SONS, CREWE.**

Only  
Address.

**"WORTH ITS WEIGHT IN GOLD."**—*Professor Buckman, F.G.S.*

A BOON TO  
FLOCKMASTERS.



NEVER USED IN  
VAIN."

USED REGULARLY AMONG THE FLOCKS OF

Her Majesty  The Queen. | H.R.H. The  Prince of Wales.

The Royal Agricultural College, Cirencester, noted Sheep Breeders in all parts of the world, and supplied to Colonial Governments' Departments of Agriculture.

# PETTIFER'S

## "Herbal Tonic" or "Flockmasters' Friend"

(REGISTERED).

A safe and certain remedy and preventive for Tapeworms, Stomach and Intestinal Worms, Lungworm, Husk or Hoose, Fevers, Scour or Diarrhoea, Dysentery and Debility. The standard Sheep medicine. The safest, surest, and most potent preparation of its kind, and may be used at any time or in any climate.

*Exhibitors and Breeders will find its occasional use to be accompanied with wonderful results in "getting up" animals for exhibition or sale, and that they thrive much quicker than under ordinary circumstances.*

USED AND PRESCRIBED BY VETERINARY SURGEONS.

### "PREVENTION IS BETTER THAN CURE."

Almost all Lambs have Tapeworms more or less at weaning time, and most particularly during the Spring and Summer months; too much importance cannot be attached to this fact, as they debilitate the system, and predispose to Fevers, Lungworm or Husk, Scour and Debility, in the Autumn, or when Lambs get older. The proprietors have advocated these facts from their own extensive practical experience as sheep specialists for the past thirty years, and in proof of their contention are corroborated very forcibly by that eminent Veterinary authority, the late Professor STEELE, F.R.C.V.S.L., in his recent exhaustive work, "Diseases of the Sheep," page 125, the following remarkable passage occurs:—"The Parasites (Tapeworms) cause pain and emaciation, and predispose the animals to other disorders. They cause loss, not only by fatalities, but by reduction in value and amount of fat, flesh and wool."

Directly in a flock where Tapeworms, Lungworm or Husk, or any other general cause is operating, or where a few animals are noticed to be ailing, all in that flock should be dosed as directed without delay, and thus the first and simplest law of medicine will be verified, "Remove the cause and the effects will cease."

For Scour in Calves, and Weakness and Debility in Cattle, it is invaluable.

In Bottles only, at 5s. each, containing from 30 to 40 doses for lambs, with full directions for use. Dose bottles enclosed free.

In giving orders it is only necessary to state the number of animals to have the proper quantity forwarded.

CAUTION: Beware of Worthless Imitations, and carefully note full title style of firm, Address and Registered Trade Mark (Roman shepherd with sheep), as here represented, or it is not genuine.

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Firm—STEPHEN PETTIFER (Original Proprietor); T. VALENTINE PETTIFER, F.R.C.V.S.L., &c.

[Established 30 Years.] **MALMESBURY, WILTS.**

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# HAYWARD'S Sheep Dips and Veterinary Preparations,



HIGHEST AWARD, CHICAGO, 1893.

A Reputation of over Fifty years standing.

USED IN EVERY STOCK-RAISING COUNTRY.

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**HAYWARD'S YELLOW PASTE DIP** (the most improved form of Sulphur-Dip), Specially useful as a summer dressing for keeping off the Maggot Fly, 1/- tins for 20 to 25 Sheep.

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**"EUREKA" WEED KILLER.** A Certain and Safe preparation, 1 gall. mixes with 50 galls. of Water. Average price for the Killer 2/6 per gall.

**Full Particulars and Samples on Application.**

Only Address—

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Manufacturing Chemists,

## MINT STREET WORKS, LINCOLN.

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FOR THE DESTRUCTION OF  
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This Composition has been in successful use for over Half-a-Century, and Millions of Sheep and Lambs are annually dipped with it.

TESTIMONIALS HAVE BEEN RECEIVED FROM ALL THE PRINCIPAL BREEDERS.

DIPPING APPARATUS, £5 and £6; and on Wheels, £18.

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Which will be found a certain remedy for eradicating that loathsome and ruinous disorder, and may be safely applied to all descriptions of Sheep (even Ewes in Lamb) in any climate or country, and during all seasons of the year. Full directions for use, which are extremely simple, accompany the Specific, which is sold at FIVE SHILLINGS per gallon (sufficient on an average for Thirty Sheep, according to the extent and virulence of the disease), also for the convenience of those having small flocks, in bottles at 1s. 3d. and 2s. 6d. each.

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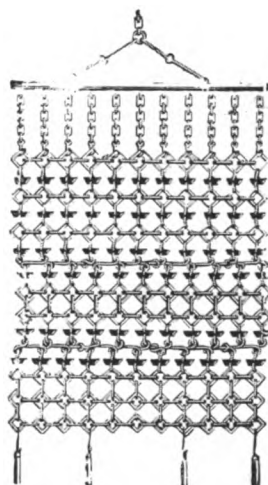
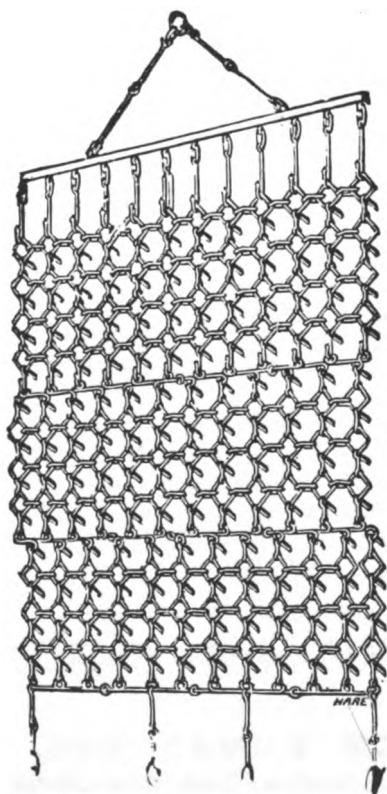
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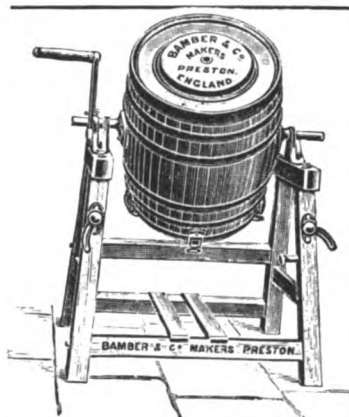
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**STRAWSON'S** cele-  
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Used by the chief Ram Breeders and Flockmasters in the  
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**IT RECOMMENDS ITSELF. TRY IT.**

May be had through any Chemist; or will be sent post free at the rate of  
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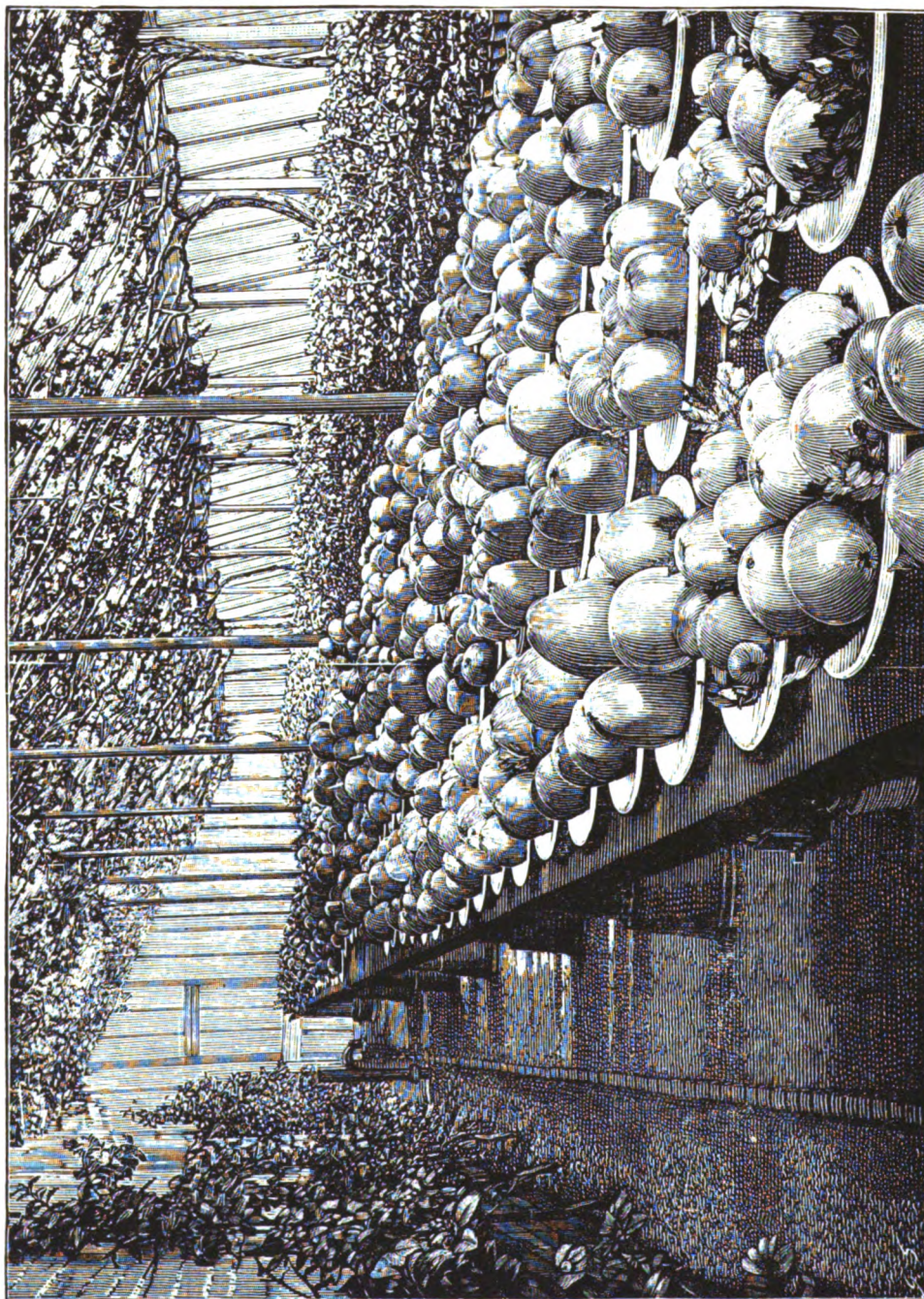
Garden Tools.  
Seeds, Plants, Shrubs and Manures.  
Poultry Appliances.  
Bee Hives and Appliances.

As the contents of this Section depends entirely upon Manufacturers subscribing for space, it is necessarily not so complete as we hope to make it when the Book becomes thoroughly established. The Directory contains the names and addresses of many firms who supply requisites under this Section, but whose goods are not fully described.

### **NOTE.**

FURTHER PARTICULARS OF GOODS MAY  
BE OBTAINED BY APPLYING TO THE  
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ARE SUPPLIED AT THE END OF THE  
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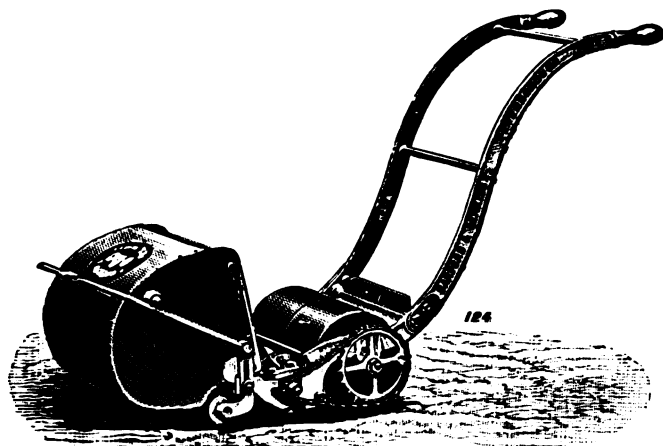
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As used at  
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 AND A LARGE NUMBER OF  
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*The following are some of the mechanical advantages combined in these Lawn Mowers:*

I.—They are driven by a specially made patent forged steel chain, perfectly silent in action, and presenting a very large wearing surface. Unlike other Lawn Mower Chains, this one has no pins, and therefore stretches less in work. It was adopted after specially conducted trials, during which it proved itself unrivalled.

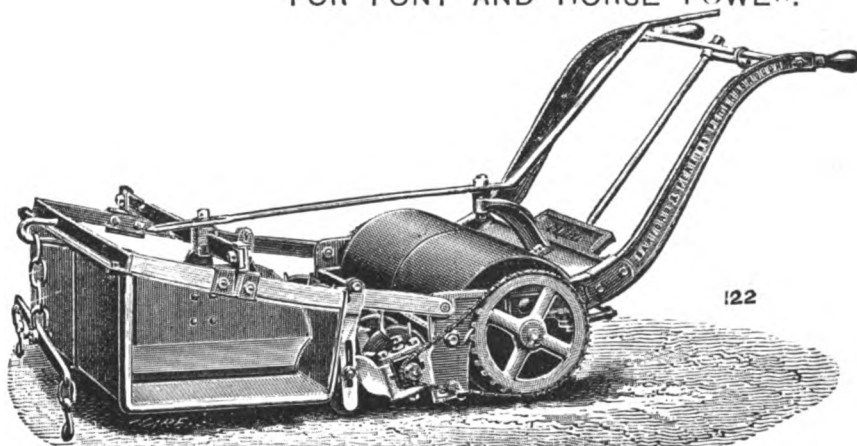
II.—The knives are made with bevelled edges and are set at a sharp angle of cut, thereby reducing the friction and lightening the draught.

III.—The machines commence cutting the instant they are started, owing to their being fitted with a triple-action ratchet in each roller.

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14 " " " " " ..	5 10 0	30) Catalogue with illustrations and prices	
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18 " " " " a man and boy	7 10 0		

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**PATENT WATER  
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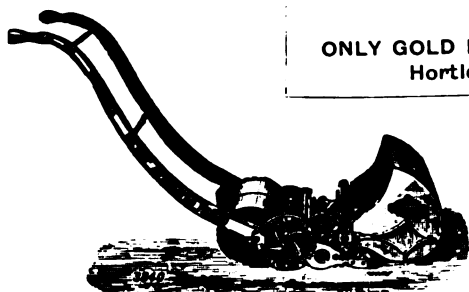
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**BARFORD & PERKINS, PETERBOROUGH.**

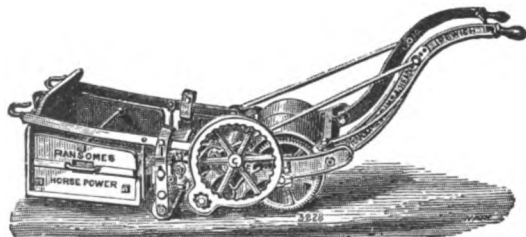
# **RANSOMES, SIMS & JEFFERIES, LD.,** ORWELL WORKS, IPSWICH; AND LONDON, 9, GRACECHURCH STREET.

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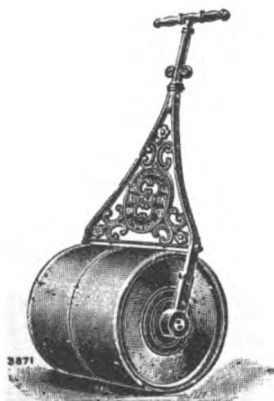
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ONLY GOLD MEDAL,  
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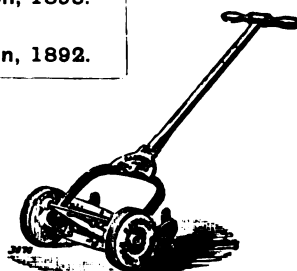
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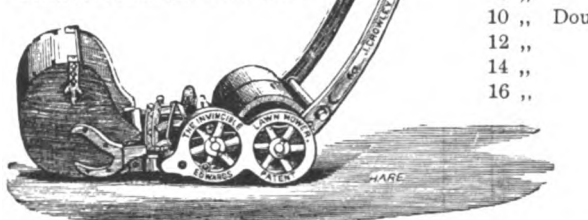


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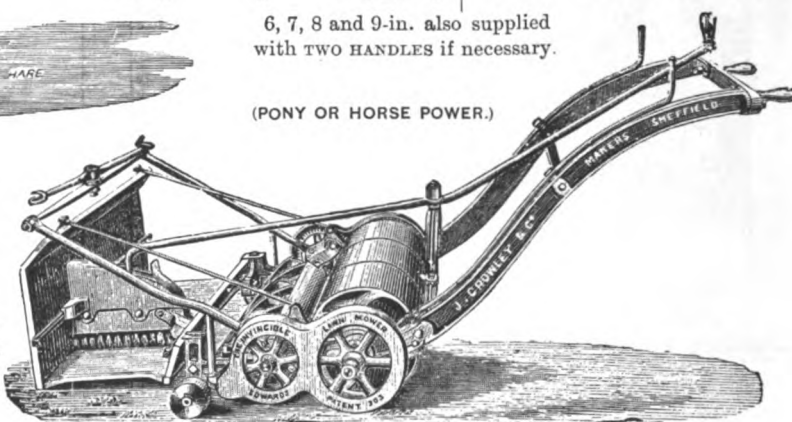
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7 " " ..	2	0	0	20 " { With strong draw-bar, } 10/6 extra.	8	10	0
8 " " ..	2	10	0	24 " " ..	9	10	0
9 " " ..	3	0	0	24 " " side delivery	14	0	0
10 " Double Handle	3	10	0	30 " " ..	22	0	0
12 " " ..	4	10	0	36 " " ..	26	0	0
14 " " ..	5	10	0	42 " " ..	30	0	0
16 " " ..	6	10	0				

6, 7, 8 and 9-in. also supplied  
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(PONY OR HORSE POWER.)



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The Grass Box  
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Light in  
draught.



REVISED PRICES.

8 in.	9 in.	10 in.	12 in.	14 in.	16 in.	18 in.
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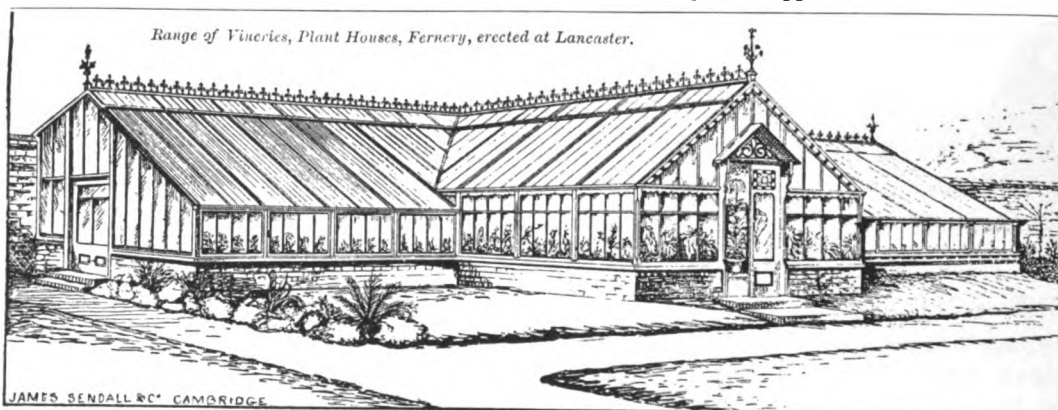
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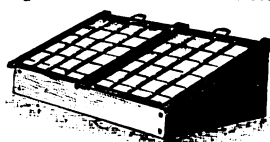
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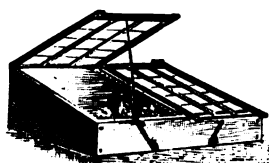
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8 ft. by 5 ft., " 2 "	2 15 0
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12 ft. by 6 ft., " 3 "	4 0 0
16 ft. by 6 ft., " 4 "	5 0 0

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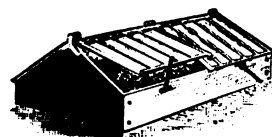
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4 ft. by 8 ft.	£1 2 6	With 2 0 0
6 ft. by 4 ft.	1 15 0	hinged 2 0 0
9 ft. by 4 ft.	2 7 6	lights 2 15 0
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5 ft. by 5 ft.	OUR OWN INVENTION.	£2 10 0
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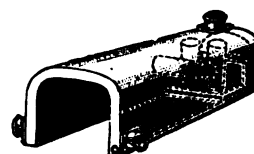
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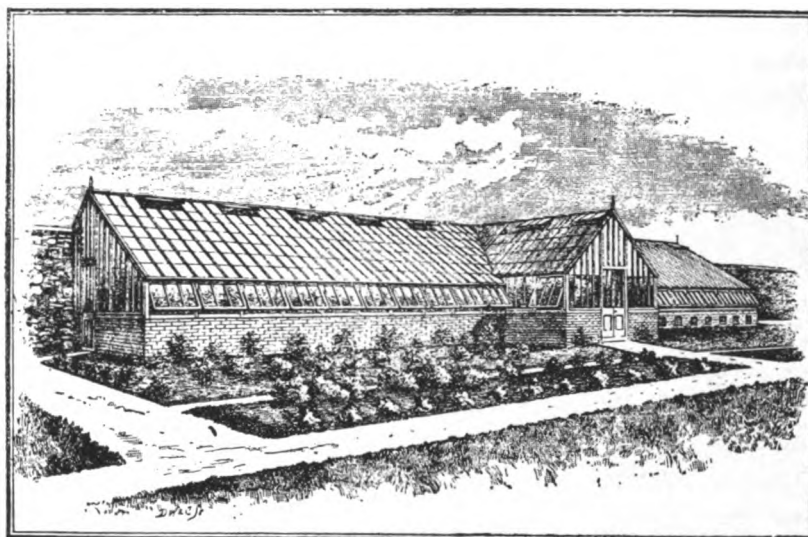
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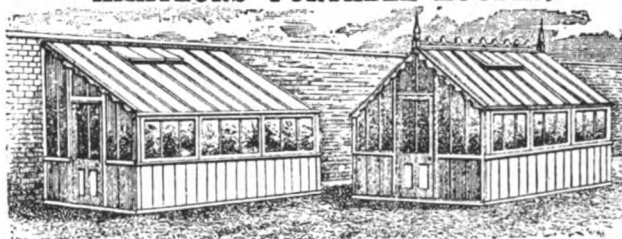
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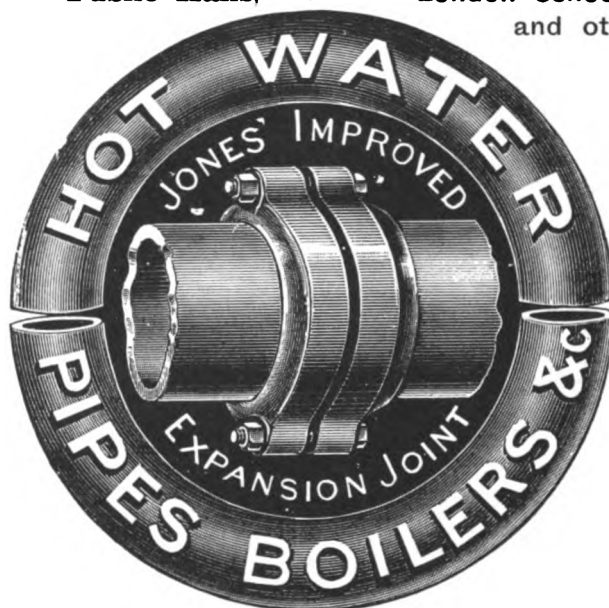
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**THOMAS S. WARE,**  
HALE FARM NURSERIES, TOTTENHAM, LONDON.

*Mention this Directory when writing.*

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Comprising Carnations and Picotees by hundreds of thousands; also collections of Phloxes, Pyrethrums, Potentillas, Delphiniums, Pentstemons, Violets, Pansies, etc., etc.

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Strains of reliable and proved worth, tested and true. Complete collections of select Vegetable Seeds, and choice Flower Seeds for small, medium, and large gardens. Catalogue published annually in January.

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Healthy sound Bulbs of these charming Spring flowers in prodigious numbers and bewildering variety.

### LILIES, IRISES, GLADIOLUS, HYACINTHS, TULIPS, CROCUSES.

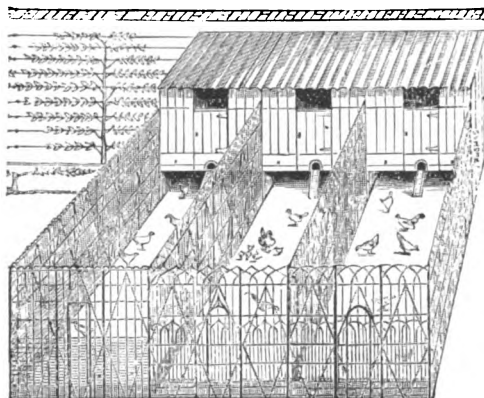
Enumerated in Autumn Catalogue of Bulbs. Pæonies (Tree and Herbaceous), Hardy Ferns and Primulas, Roses, Climbers and Creeping Plants.

**Aquatic and Bog Plants**, **Rockery**, and **Border Plants**, **Decorative Shrubs**, etc., etc.

# THOMAS'S Requisites for the Farm or Poultry Yard.

## IMPROVED PORTABLE POULTRY HOUSES, to fix against a Wall.

No. 526.



With Galvanized Corrugated Iron Roofs, lined underneath with wood. In ranges of any number for Breeding different varieties. Fitted with Nest Boxes, Perches, &c. complete.

Each house is well made: painted green outside, and lime-whited inside.

Size: 6-feet high at back, 5-feet high in front, 4-feet wide and 4-feet from back to front. Run 18-feet long.

Three Houses, with No. 691 Fencing, complete ... £13 10

Two Houses, with No. 691 Fencing, complete ... £9 5

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### PRICES OF HOUSES WITHOUT THE RUNS.

High at Back	High in Front.	Wide.	Back to Front.	PRICE.
6-ft. 0-in. ...	5-ft. 0-in. ...	4-ft. 0-in. ...	4-ft. 0-in. ...	£3 0 0
6-ft. 6-in. ...	5-ft. 6-in. ...	5-ft. 0-in. ...	4-ft. 0-in. ...	4 0 0
7-ft. 0-in. ...	6-ft. 0-in. ...	6-ft. 0-in. ...	5-ft. 0-in. ...	5 10 0

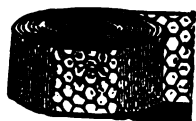
## GALVANIZED STEEL BARB FENCING WIRE.



50-yd. reels.	100-yd. reels.	250-yd. reels (½-cwt.)	560-yd. reels 1-cwt.
2/3 ...	3/9 ...	7 6 ...	15 0 ...

## BEST QUALITY GALVANIZED WIRE NETTING.

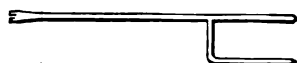
Reduced Prices per Roll of 50 yards.  
Cash with Order only.



Mesh.	1-ft. wide.	2-ft. wide.	3-ft. wide.	4-ft. wide.	5-ft. wide.
3-in. ...	1/8 ...	3/3 ...	4/11 ...	6 6 ...	9 9 ...
2-in. ...	2 0 ...	4 0 ...	6/0 ...	8 0 ...	12/0 ...
1½-in. ...	2 9 ...	5 6 ...	8 3 ...	11/0 ...	16 6 ...
1-in. ...	3 9 ...	7 6 ...	11/3 ...	15 0 ...	22 6 ...

Netting Staples, 2d. and 3d. per gross.

## NETTING STAKES. No. 465.



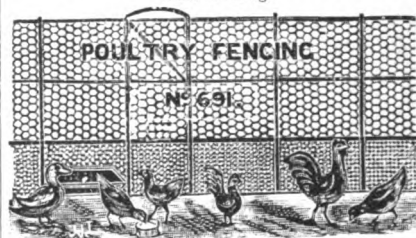
	2-ft.	2-ft. 6-in.	3-ft.	4-ft.	6-ft. above gnd.
Painted	3/9	4/9	5/6	7/0	12 6 per doz.
Galvanized	4/3	6/0	7/0	9 9	18/0 "

Illustrated Catalogue on application.

	s.	d.
Continuous Fencing ...	1	9 per yd.
Unclimbable Hurdles, 4-feet high ...	4	3 "
Soft Galvanized Tying Wire ...	0	4 per lb.
Roofing Felt, 32-inches wide ...	0	3 per yd.
Corrugated Iron Roofing ...	2	0 sheet.
Galvanized Ridge Capping ...	0	6 per ft.
Poultry Troughs ...	1	0 each.
Kennel Railing, 4-feet high ...	4	9 per yd.
Solid Fencing Wire ...	9	6 per cwt.

	s.	d.
Cattle Hurdles ...	4	0 each.
Field Gates, 9-feet wide ...	27	6 "
Wicket Gates ...	12	6 "
Straining Screws and Nuts, 12-inch, Galvanized ...	3	0 per doz.
Fencing Staples, 1½-inch long ...	1	0 per gross.
Galvanized Wire Cable ...	17	6 per cwt.
Jet Varnish in Casks ...	1	6 per gall.
Sheep Hurdles ...	3	0 each.

Made in Hurdles 6-feet long.  
Iron Frames Blacked, Covered with Galvanized Wire Netting.



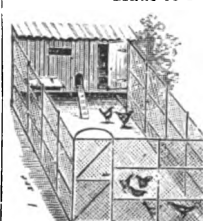
4-ft.	5-ft.	6-ft.	7-ft. high.
1 10 ...	2 0 ...	2 3 ...	2 9 per yd.
Gates, 7/6 each. Corner Standards, 1/6 each.			

## IMPROVED POULTRY PENS.

Made of No. 691 Fencing.

12-feet long, 8-feet wide,  
6-feet high.

PRICE ... £1 10 0



## Poultry House,

TO FIT AGAINST A WALL,  
8-feet wide, 4-feet deep,  
7-feet high at back.

PRICE ... £5 15 0

## PORTABLE POULTRY HOUSE.



No. 835a.

4-ft. long, 4-ft. wide,  
5-ft. 9-in. high.

PRICE ... £2 15 0

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TO FIX AGAINST A WALL.



No. 825.

HOUSE,  
4-feet long.

RUN  
8-feet long.

£4 0 0.

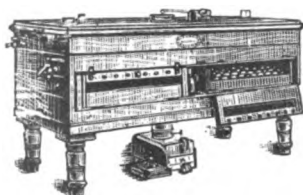
**J. J. THOMAS & CO.,** (87, QUEEN VICTORIA STREET,  
360 and 362, EDGWARE ROAD,) **LONDON.**



W. W. GREENWOOD, Trading as  
**S. MANN, GREENWOOD & CO.,**  
 Incubator, Rearey and Poultry Appliance Manufacturers,  
 46, PREBEND STREET, BEDFORD.

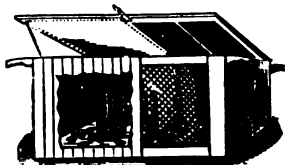
*Awarded Silver Medal at Dairy Show, 1892-1893.*

**THE "PREMIER" INCUBATOR AND REARER.**  
 Carriage Paid.



50 Eggs, £5 5 0  
 100 " 7 0 0  
 200 " 10 0 0

50 Chicks, £1 15 0  
 100 " 2 10 0



**THE "BELLEVUE" ORDINARY FOWL HOUSE.**



Cheapest in the Trade.

9 ft. x 6 ft. x 6 ft. 8 ins.

50 Fowls ... .. £2 10 0  
 Carriage Paid.

**DUCK HOUSE.**



6 ft. x 3 ft. x 3 ft.

£1 7 6.

Carriage Paid.

**THE "BELLEVUE" DAY SHELTER,**

ON WHEELS.



9 ft. x 6 ft. x 6 ft. 8 ins.

50 Fowls, £3 12 6

Carriage Paid.

**COOP AND RUN.**



Coops...5/- each. £2 8/- per doz.  
 Runs...4/- " £2 " "

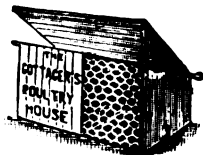
**DRINKING FOUNTAINS.**



1/6 each.

15/- per doz.

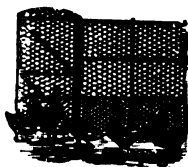
**Cottager's Poultry House & Cold Rearer.**



*Awarded Silver Medal at Dairy Show, October 7th, 1893.*

6 ft. x 2 ft. 8 in. x 2 ft.  
 £1 2 6. Carriage Paid.

**HURDLES.**



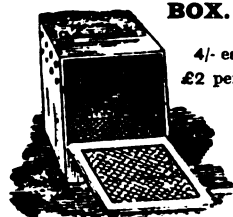
6 ft. square 4/3.

**GATE.**

2 ft. x 6 ft. 5/-.

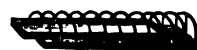
Nuts, Bolts and Feet complete.

**NEST AND SITTING BOX.**



4/- each.  
 £2 per doz.

**CHICKEN TROUGHS.**



1/6 each. 15/- per doz.

**FATTENING PEN.**



Four separate compartments. 16/6.

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Terrier's ... 12/6.  
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Cheapest and best in the market.  
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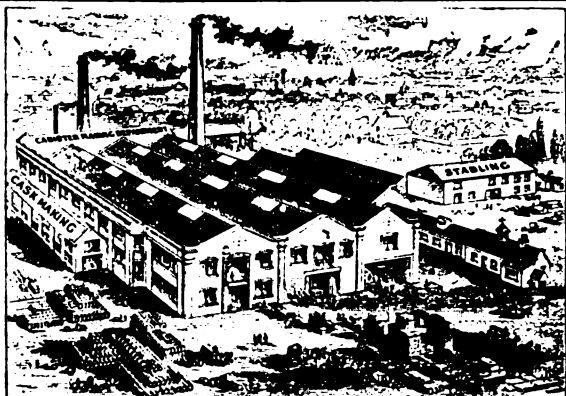
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No more Sour Milk, Inferior Butter, Tainted Meat, Fish, Sausages, Poultry, &c.

By using **PRESERVINE**, which is an Antiseptic Salt free from Colour, Taste or Smell, and as wholesome as the Bread we eat, MILK is guaranteed to keep perfectly Sweet for eight days during the most sultry weather, and BUTTER for any length of time, or any Food likely to turn Sour. Its Preserving Qualities are marvellous, and have defied competition for years. Thousands of Testimonials.

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Also in 3 lb. and 7 lb. Canisters, for DOMESTIC PURPOSES and STABLE USE.

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Which has in combination Soft Soap and Sulphur, and is entirely soluble in water, is a CERTAIN REMEDY for GREEN FLY, RED SPIDER, &c. See Reports by Miss E. A. Ormerod, F.R. Met. Soc.; also by Mr. C. Whitehead.

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Commended by the Judges of the Royal Horticultural Society.

Mr. COLEMAN in the "Garden" says:—"Thanks to Bloxham's Fumigator used weekly, our Tobacco consumption is very small, and by next put in an appearance."

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## IMPERIAL SOFT SOAP

Odourless and Best for

**WASHING HOPS  
and RUIT TREES.**

Fkns., 64 lbs. net, 11/- Half Fkns. 6/-.

Award of a **GOLD MEDAL** to HEARSON'S CHAMPION INCUBATOR, at the Hague Exhibition. In a trial carried on by the Judges under test conditions, Hearson's Champion Incubator hatched **95 CHICKS** out of **100 EGGS**. We supply the world with Incubators, and all who use our machines acknowledge them to be without a rival.

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THE PROBLEM SOLVED.

**CHICKENS ALL THE YEAR ROUND**

All the best Prizes and Medals have been awarded to

**HEARSON'S  
CHAMPION INCUBATOR**

(By ROYAL LETTERS PATENT).

The most complete and only Thermostatic Incubator in the world.

FITTED WITH COPPER TANKS.



The CHAMPION has now superseded all others. Since its introduction no other incubator maker in the world has been awarded a first prize at any show at which this apparatus has been entered for competition. It is the only incubator in the world sold with a guarantee not to vary five degrees for twelve months together, without readjustment, and in no other incubator is the ventilation and damping so scientifically and practically carried out.

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Try our "EUREKA" POULTRY MEAL, 16s. cwt.



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**MOTLEY & GREEN,**

Engineers and Manufacturers of  
GALVANIZED CORRUGATED IRON  
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NO WRITING REQUIRED.

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**“NEW  
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THE LARGEST SIZE,

24-INCH CUT,

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BY ONE MAN.



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			GRASS BOXES,	
			EXTRA.	
			£ s. d.	s. d.
10 inch cut	..	..	2 10 0	6 0
12	..	..	3 2 6	6 0
14	..	..	3 12 0	7 6
16	..	..	4 0 0	7 6
18	..	..	4 7 6	9 0
20	..	..	4 16 0	9 0
24	..	..	6 5 0	10 6

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CUTS 24 INCH EASY

**WORLD'S FAIR, CHICAGO, '93. HIGHEST AWARD.**

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**NO AWARD WAS GIVEN**

To any English or Continental-made Lawn Mowers!

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**PERFECTION OF EASY WORKING AND EFFICIENCY.**

The only American Lawn Mower fitted with Six Cutting Blades. It will mow Grass closely and smoothly, and with **half the labour of the best English machines.** All Sizes up to largest can be worked easily by one Man.

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**AN EFFECTUAL REMEDY FOR FLY, SLUG, &c.**

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Two Tons and upwards.**

**A Sample 1 cwt. bag sent Carriage Paid on receipt of 5s.**

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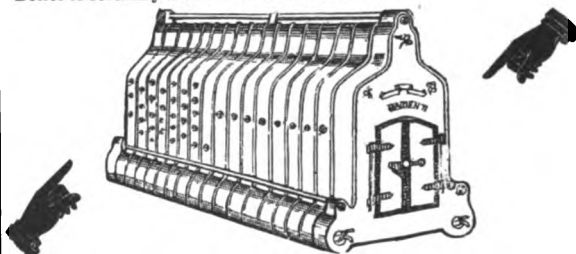
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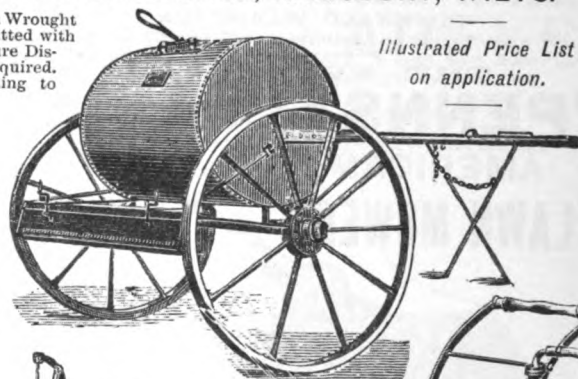
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PORTABLE BARROW PUMPS & GARDEN ENGINES,  
NEWTOWN IRON WORKS, RAMSBURY, WILTS.**

Water-Cart on Wrought  
Iron Wheels, fitted with  
Liquid Manure Dis-  
tributor if required.  
Price according to  
size.

*Illustrated Price List  
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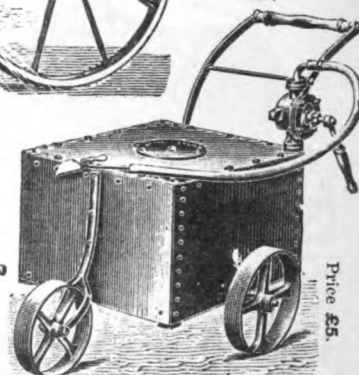


Price  
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Hose,  
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Portable Barrow Pump.

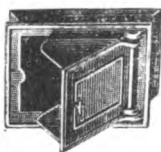


25-Gallon Water-Cart &amp; Garden Engine.

SILVER MEDAL,



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**RICHARDSON'S****PATENT**

Ash or Dust Shoot.

A complete Shut-off,

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Handsomely Bronzed,

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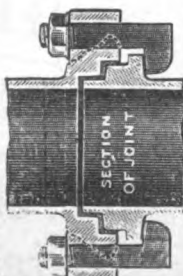
Over 500 stock sizes.

Vertical and Horizontal.

**RICHARDSON'S****PATENT**

Indiarubber Expansion Joint Pipes and Connections.

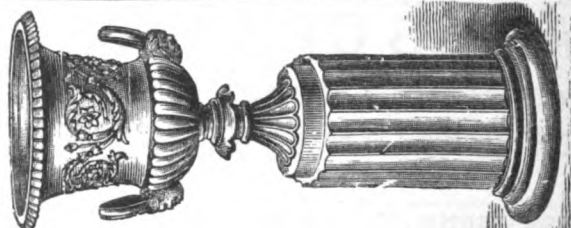
The Only Permanently Sound Joint in the Market. Being a Firm Seating Joint it cannot possibly give way. Adopted by H.M.'s War Dept., Home Office, London, and Country School Boards, &c.



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SILVER MEDAL,



No 6

Double Cylinder Garden Roller.

The "PORTLAND,"

for Water or Sand Ballast.

GARDEN VASES, FOUNTAINS &amp; SEATS in

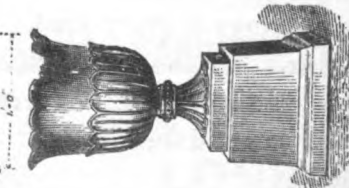
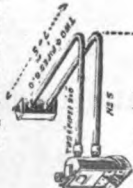
great variety.

HAND-LIGHTS, IRON GARDEN FRAMES and

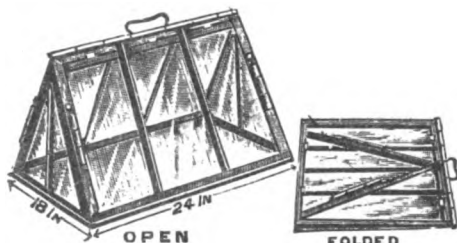
LIGHTS on a new system.

PEA TRAINERS and PROTECTORS, Lawn

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**MEADOW FOUNDRY CO., LTD., MANSFIELD.**

## WILLIAM CUTLER'S NEW FOLDING HAND & RIDGE LIGHTS.

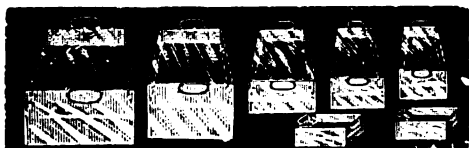


No. 1 size—24-in. long × 18-in. wide	...	5/- complete.
Sides	...	3/- pair.
Ends	...	1/- each.
No. 2 size—30-in. long × 21-in. wide	...	7/6 complete.
Sides	...	4/8 pair.
Ends	...	1/6 each.
No. 3 size—36-in. long × 24-in. wide	...	10/- complete.
Sides	...	6/- pair.
Ends	...	2/- each.

*A reduction per dozen.*

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## NEW SEED COVERS.



In Nests of Seven, 10/- per Nest. Metal Frames, 21-oz. Glass.

Largest size, 16 × 12 inches. Smallest size, 10 × 6 inches.

Messrs. Pope & Son, King's Norton Nurseries, say: "These are most useful for gardeners, and supply a long-felt want."

## DRAWING ROOM AQUARIUM.



Smallest Size to hold 8 Gallons, 6/-.

Larger Sizes 2/- per gallon extra. 1/6 extra with metal tap at bottom.

All Orders of 10/- and over Carriage Paid.

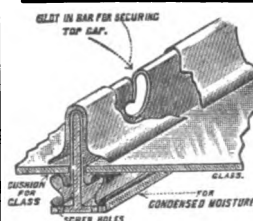
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89, SNOW HILL.

Manufactory:

CANNON WORKS, CONSTITUTION HILL  
BIRMINGHAM.

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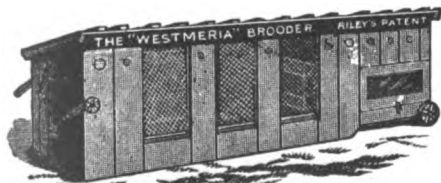
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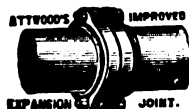
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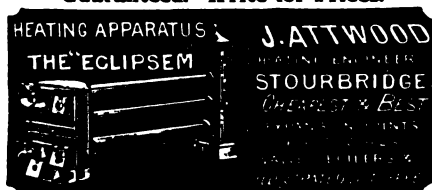
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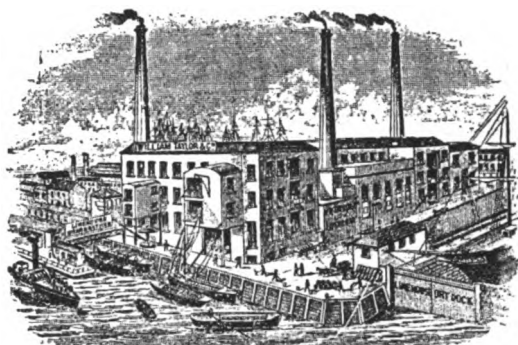
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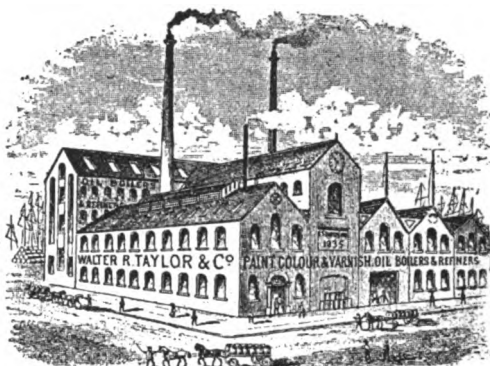
TWO HIGHEST PRIZE MEDALS AWARDED FOR EXCELLENCE.



LONDON FACTORY, TAYLOR'S WHARF, LIMEHOUSE.

GOLD MEDAL,  
Liverpool  
International  
Exhibition, 1886.

FIRST ORDER OF  
MERIT,  
Adelaide,  
Australia, 1887.



LIVERPOOL WORKS: CLYDE STREET.

**Patent Zinc White, Red and White Lead, Paint, Colour and Varnish Manufacturers,  
OIL BOILERS, AND REFINERS OF LINSEED, COLZA AND OLIVE OILS.  
METALLIC KEG AND DRUM MAKERS.**

*N.B.—Our Packages are specially constructed by machinery, being of EXTRA STRENGTH to ensure Merchants and Shippers against LEAKAGE and DAMAGE, so frequently complained of.*

We beg to draw the attention of private consumers to our Pattern Colour Cards, and lists of Non-Poisonous Paints and Colours, which are specially prepared by our firm for Domestic purposes.

These Paints of our manufacture are PERFECTLY HARMLESS and Non-Poisonous, and, being of the very best class, are specially adapted for Outdoor and Internal decorative purposes, where DURABILITY and PRESERVATIVE properties are required, such as

Conservatories. Farm Buildings. Farm Implements. Park Fencing. Gates. Hurdles. Roofing. Carts and Waggons. Bridges. Stables. Passages. Sitting Rooms. Picture Galleries, &c., &c.

*And all kinds of Iron and Wood Work, Brick, Compo., Cement, Stone, Mansions, Villas, and every description of Residential Property requiring to be protected from the various atmospheric changes.*

**OUR PREPARED LIQUID PAINTS** (Ready Mixed for use), in 40 Different Shades of Colour, and are put up in Patent Tins of 1, 2, 3, 5, 7, 14 lb. Tins, and 28, 56, and 112 lb. Iron Drums. (See pattern colour cards.)

**OUR PATENT ZINC WHITE** is the most permanent and beautiful White Paint known, and is much used for all Internal Decorative Work, also Greenhouses and Frames, &c., &c.

**OUR MAGNETIC-IRON PAINTS** are highly recommended for Iron-work and Outbuildings where dark coloured Paints are requisite, to arrest Rust and Decay.

**OUR PRIZE MEDAL "ENAMEL" AND FRESCO PAINTS**, which are prepared under a special process of our own to dry hard in twenty minutes, and the most beautiful and durable pigments offered to the Public, perfectly harmless and non-deleterious to health.

The BODY or COVERING PROPERTIES of our Paints are very great, and therefore prove themselves the most economical in use. They have been manufactured by our firm for upwards of HALF-A-CENTURY, and have been extensively used by the largest Steamship, Railway, and Canal Companies, Collieries, Ironmasters, and Contractors, Engineers, Public Institutions, Corporative Bodies, Estates of the Leading Nobility, Dock and Harbour Boards, Gas Companies, Her Majesty's Government, Italian Government, Argentine Republic, Foreign and Colonial Governments of Australia, Spain, Austria, France, Greece, China, Chili, Russia, and Peru.

**TAYLOR'S Double Balled Linseed Oil.**

**TAYLOR'S Extra Pale Balled Linseed Oil, for White and Light Coloured Paints.**

**TAYLOR'S Machinery, Lubricating, and Refined Lamp Oils.**

**TAYLOR'S Compound Engine and "Speed Car" Oils.**

**TAYLOR'S Snow White Zinc Paint** is the most beautiful, permanent and non-poisonous White Paint known; its colour is unaffected by noxious gases, blige water, &c.

**TAYLOR'S Anti-Fouling and Anti-Corrosive Compositions**, for preventing the adhesion of Barnacles, Weeds, Rust, &c., on Ships' bottoms, buoys, and submerged works.

**TAYLOR'S Water-proof Solution**, for preventing absorption of moisture into Brick, Stone, Plaster, Stucco, Cement, &c.

**TAYLOR'S Improved ENAMEL Paints**, in all colours, prepared ready for use, and dry hard in 20 minutes with splendid lustre.

**TAYLOR'S Patent Ground Driers and Powdered White Driers.**

**TAYLOR'S High-class Varnishes**, for House Painters and Carriage Builders.

**TAYLOR'S Washable Distemper**, in all tints.

**TAYLOR'S Non-poisonous FRESCO Paints**, for Walls, Ceilings, Dadoes, &c.

**TAYLOR'S Stains for Wood**, to stain Deal or any light wood to imitate Oak, Mahogany, Walnut, Ebony, Rosewood, Satinwood, &c.

*Special Quotations and conditions conceded to EXPORT MERCHANTS, and SAMPLES, PATTERN COLOUR CARDS, and PRICE LISTS with all particulars on application to*

**WALTER R. TAYLOR & Co., 92 & 94, Whitechapel, LIVERPOOL.**

ESTABLISHED 1835.













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